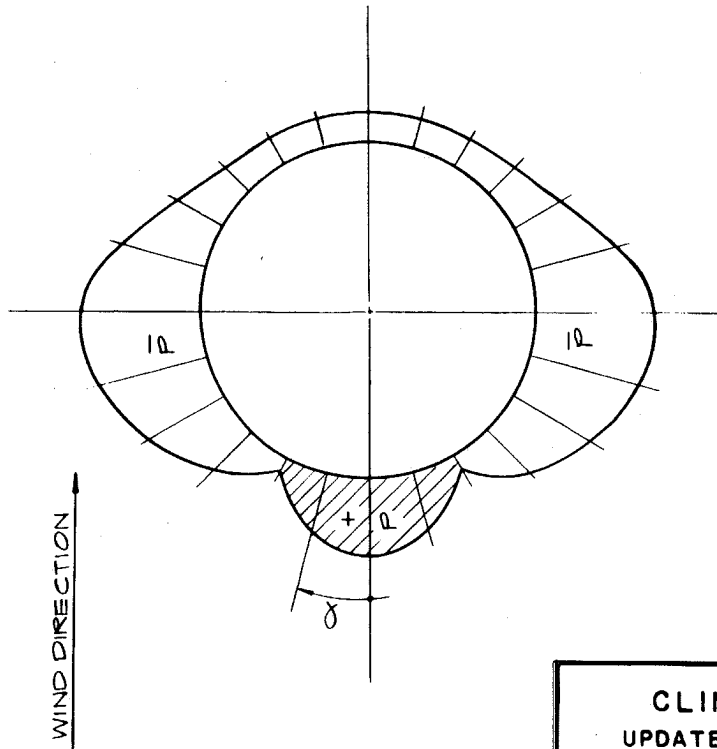


HEMISPHERICAL SHELL



CYLINDRICAL SHELL

α°	CYLINDRICAL SHELL C_p	HEMISPHERICAL SHELL C_p
0	1.0	1.0
15	0.8	0.9
30	0.1	0.5
45	-0.7	-0.1
60	-1.2	-0.7
75	-1.6	-1.1
90	-1.7	-1.2
105	-1.2	-1.0
120	-0.7	-0.6
135	-0.5	-0.2
150	-0.4	0.1
165	-0.4	0.3
180	-0.4	0.4

$$P = C_p \times q$$

WHERE;

P - DESIGN PRESSURE

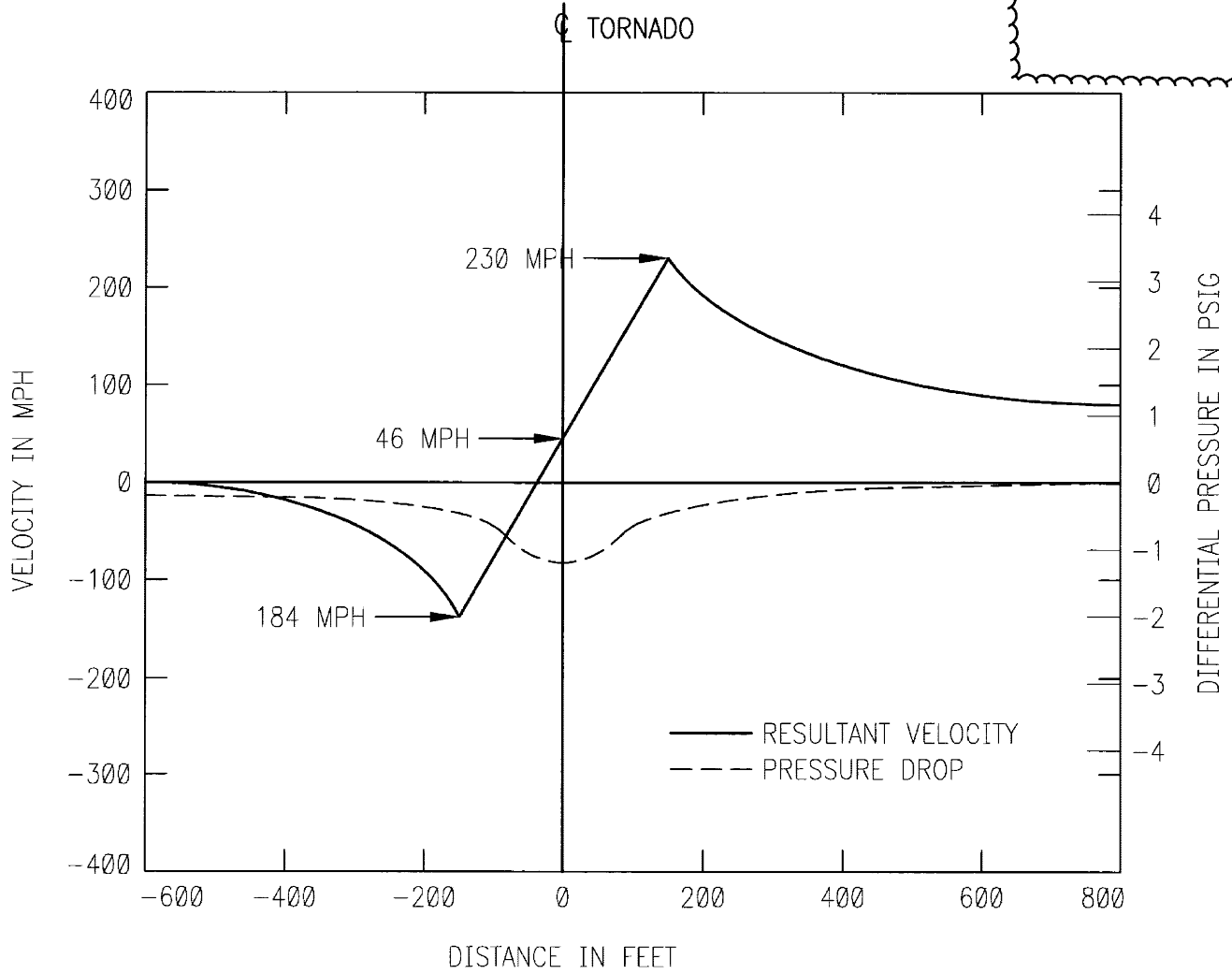
C_p - COEFFICIENT FOR DESIGN PRESSURE

q - DYNAMIC PRESSURE

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.3-2

WIND PRESSURE DISTRIBUTION
FOR CONTAINMENT STRUCTURES

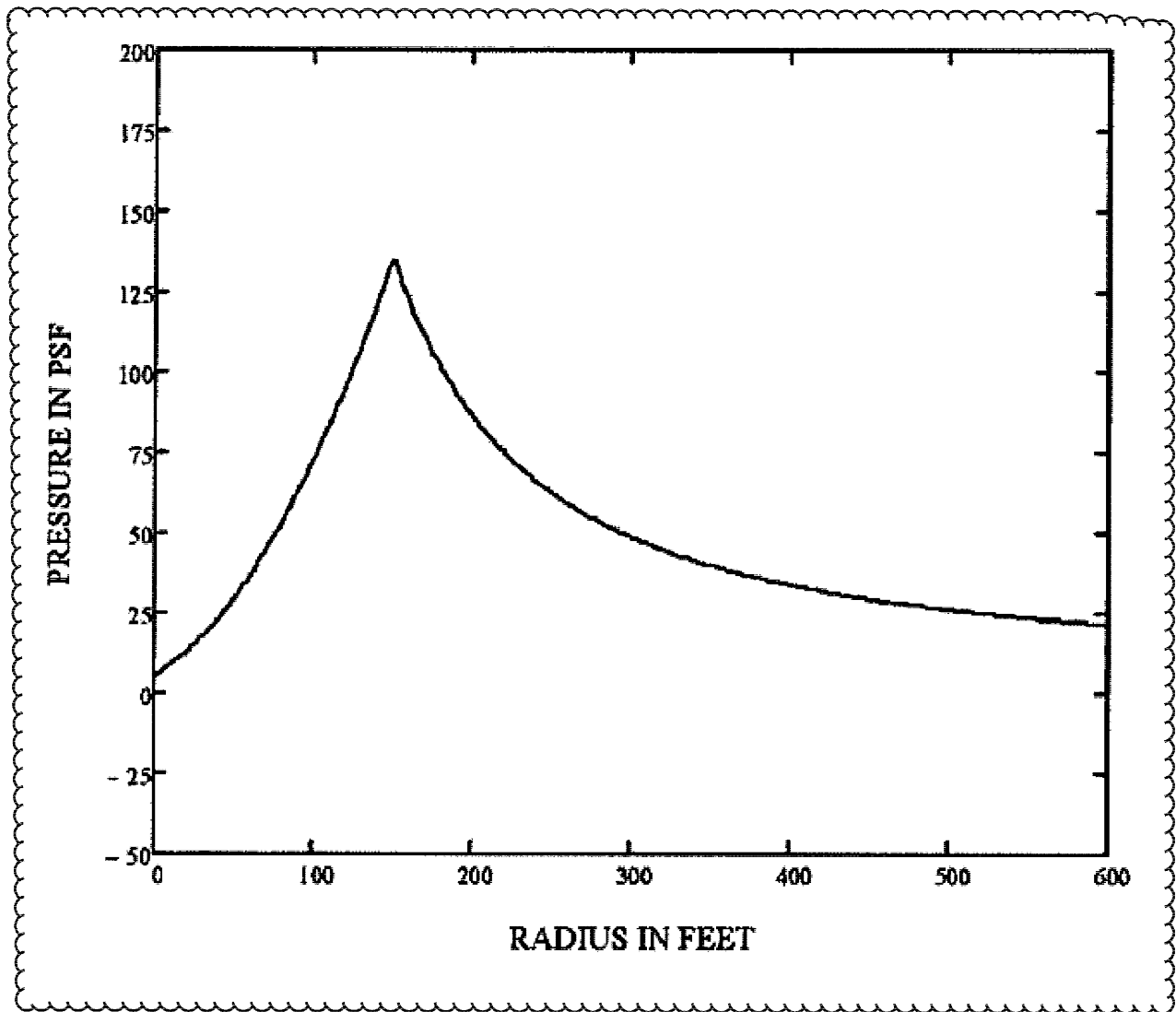


TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT
PRESSURE DROP = 1.2 PSI WITHIN 2.4 SECONDS

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.3-3

PRESSURE AND VELOCITY
DISTRIBUTION FOR
THE DESIGN-BASIS TORNADO

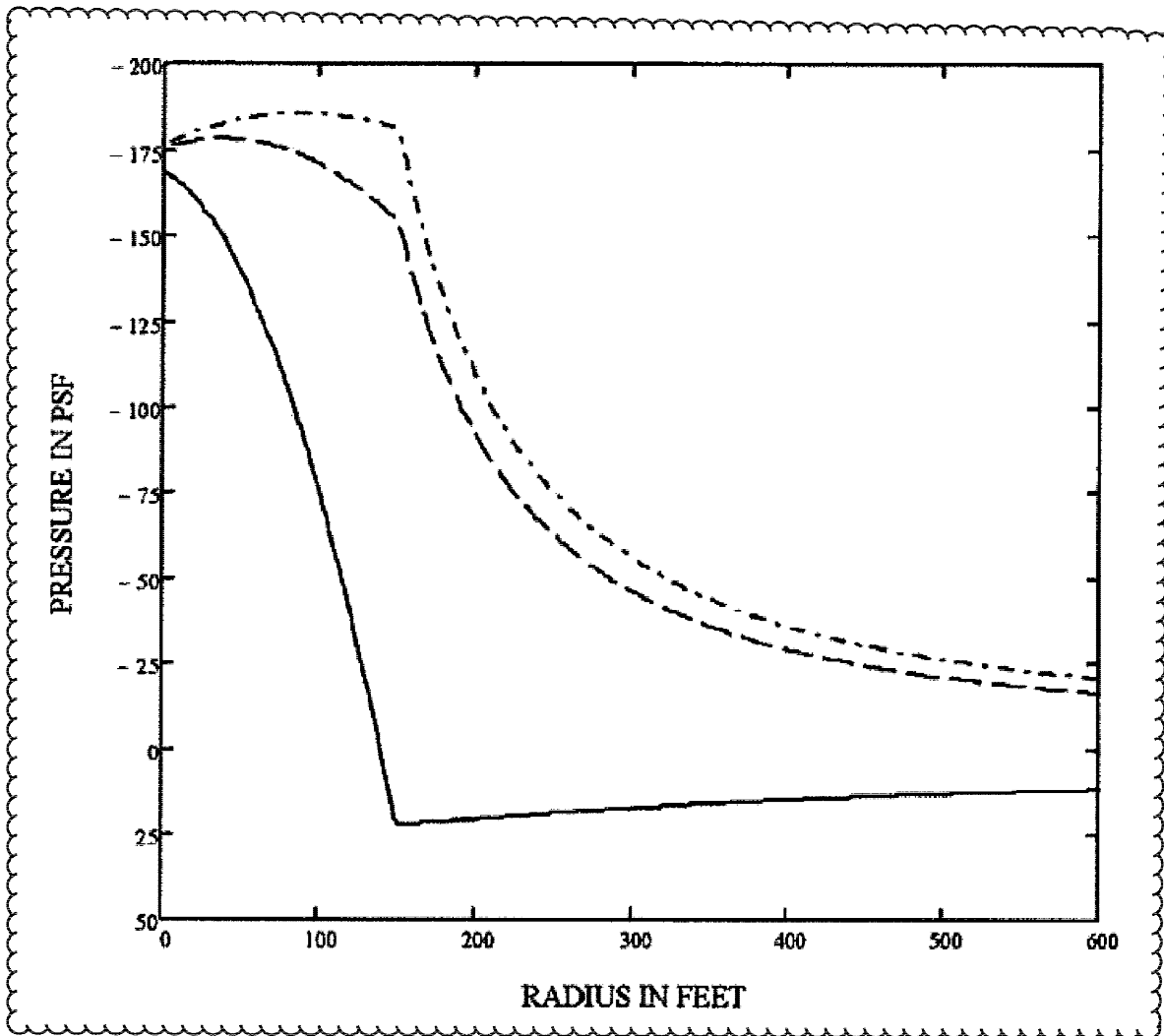


TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.3-4

EFFECTIVE VELOCITY PRESSURE
DISTRIBUTION FOR
THE DESIGN-BASIS TORNADO



KEY

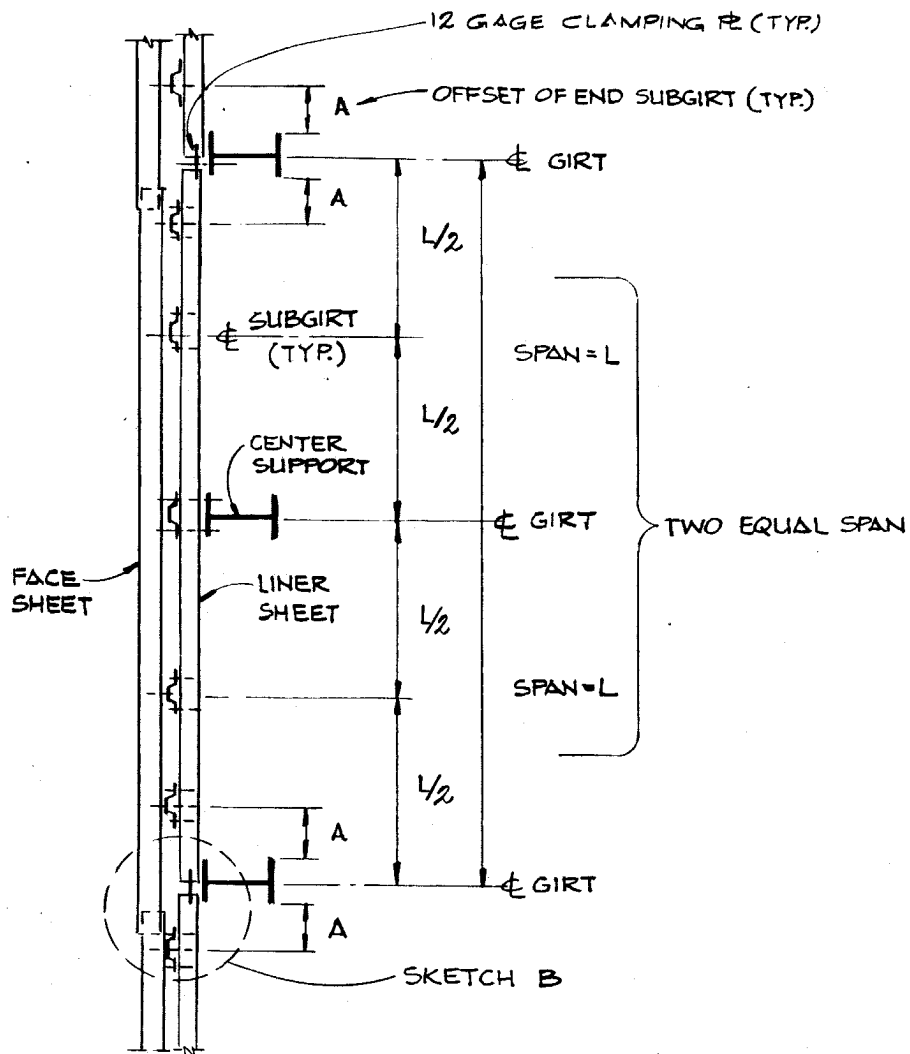
- RESULTANT SURFACE PRESSURE FOR WINDWARD WALLS
- - - - RESULTANT SURFACE PRESSURE FOR LEEWARD WALLS
- · - · - RESULTANT SURFACE PRESSURE FOR SIDEWALLS AND ROOFS

TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT
PRESSURE DROP = 1.2 PSI WITHIN 2.4 SECONDS

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

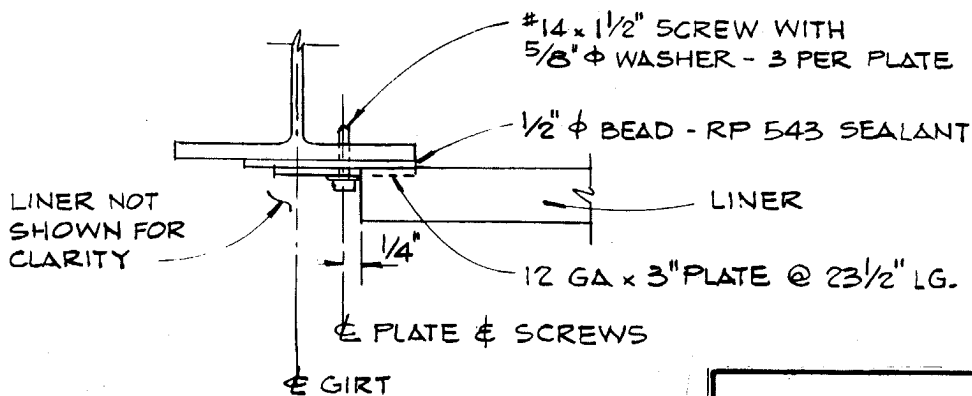
FIGURE 3.3-5

RESULTANT SURFACE PRESSURES FOR
THE DESIGN-BASIS TORNADO FOR
RECTANGULAR FLAT-TOPPED STRUCTURES



INSULATION NOT SHOWN FOR CLARITY

SKETCH A



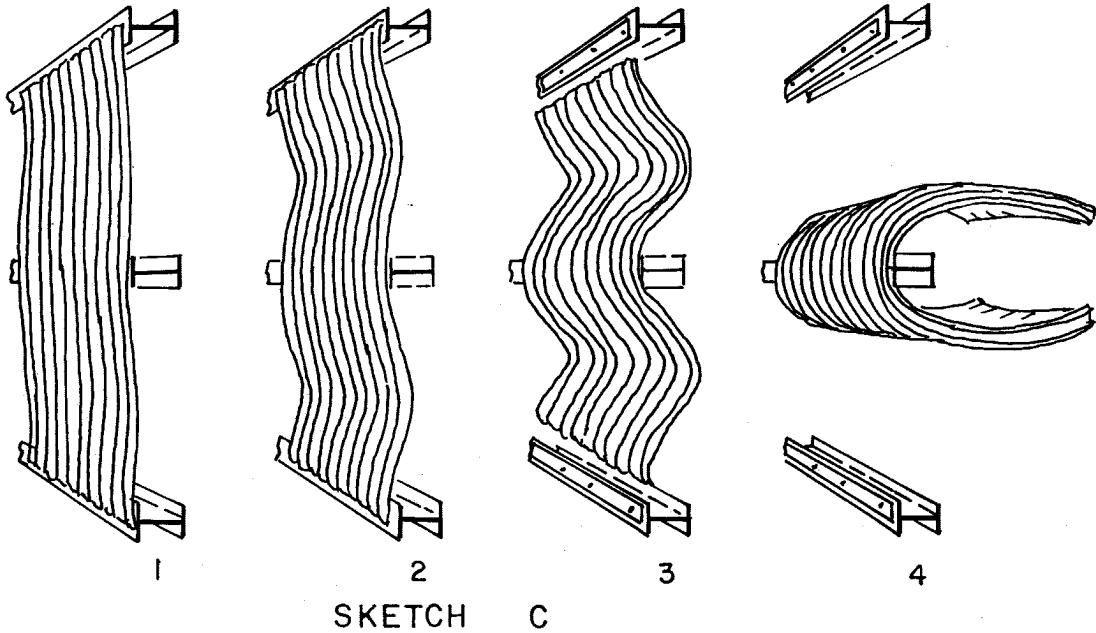
SKETCH B

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

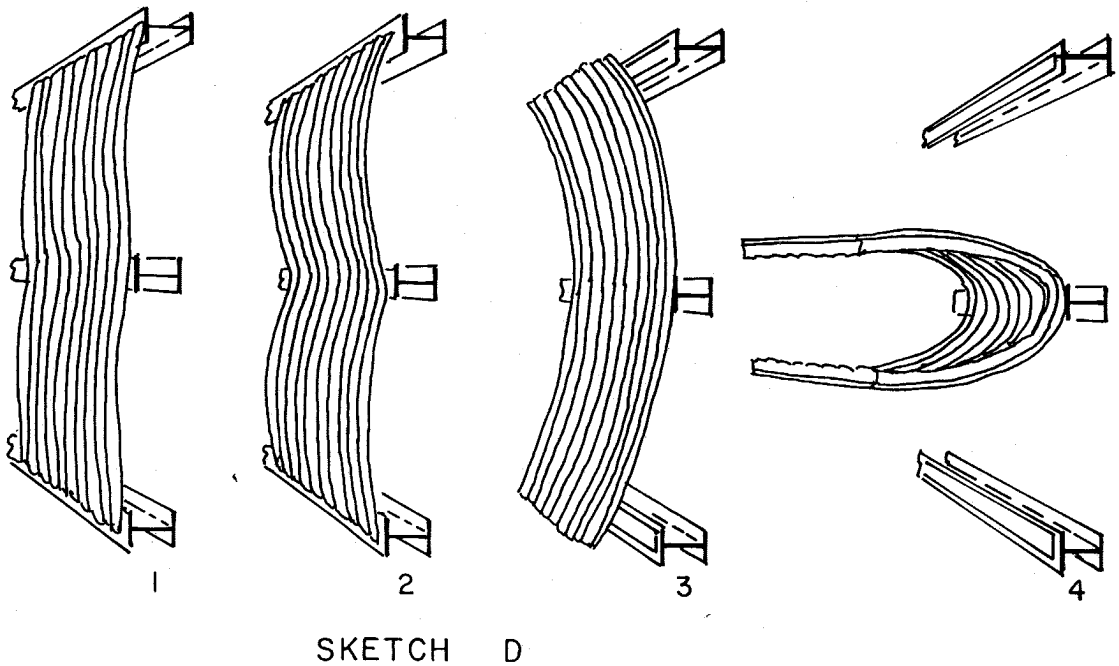
Figure 3.3-6
(Q & R 220.03)

TURBINE BUILDING SIDING
(SKETCHES A & B)

INWARD RELEASE MECHANISM



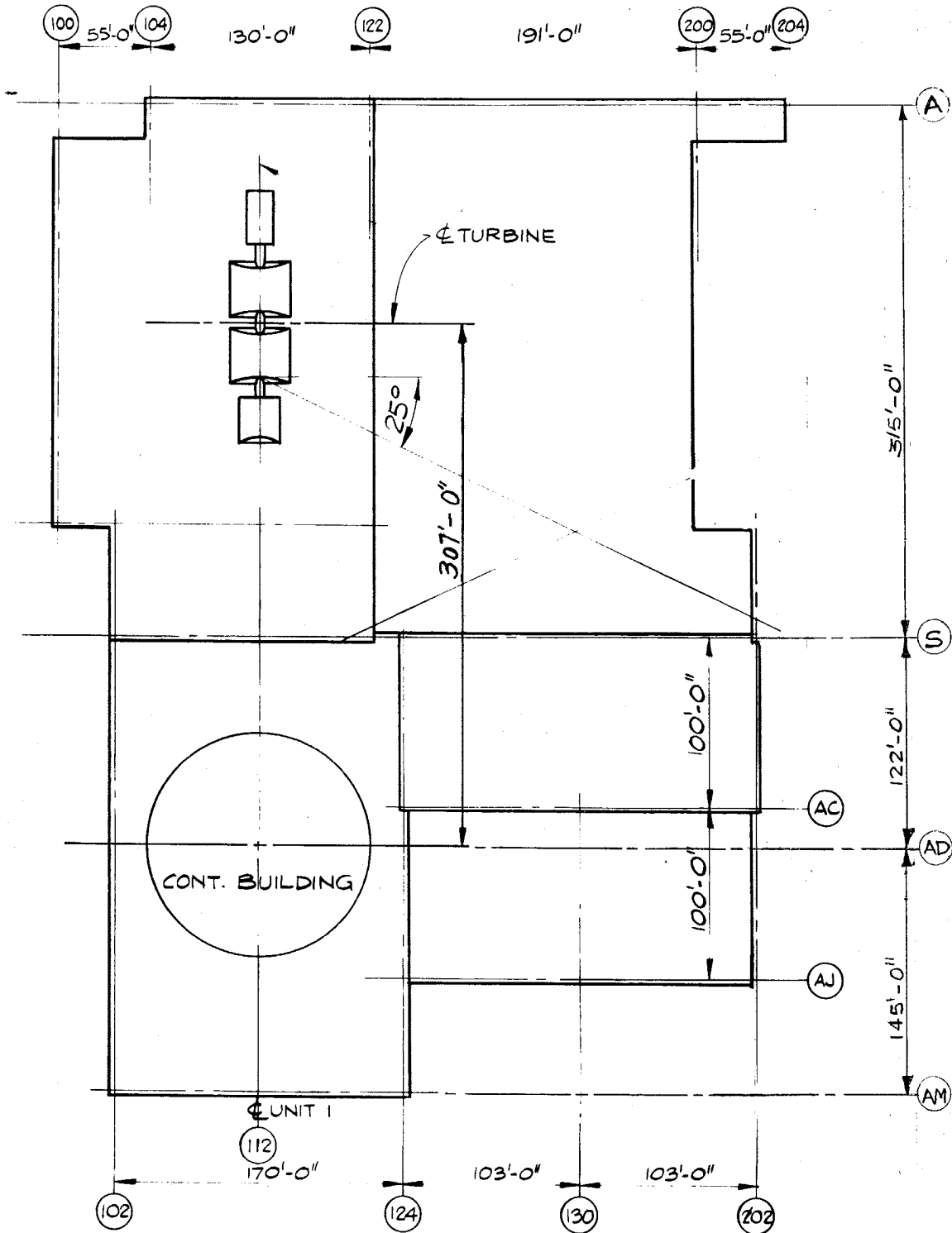
OUTWARD RELEASE MECHANISM



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.3-7
(Q & R 220.03)

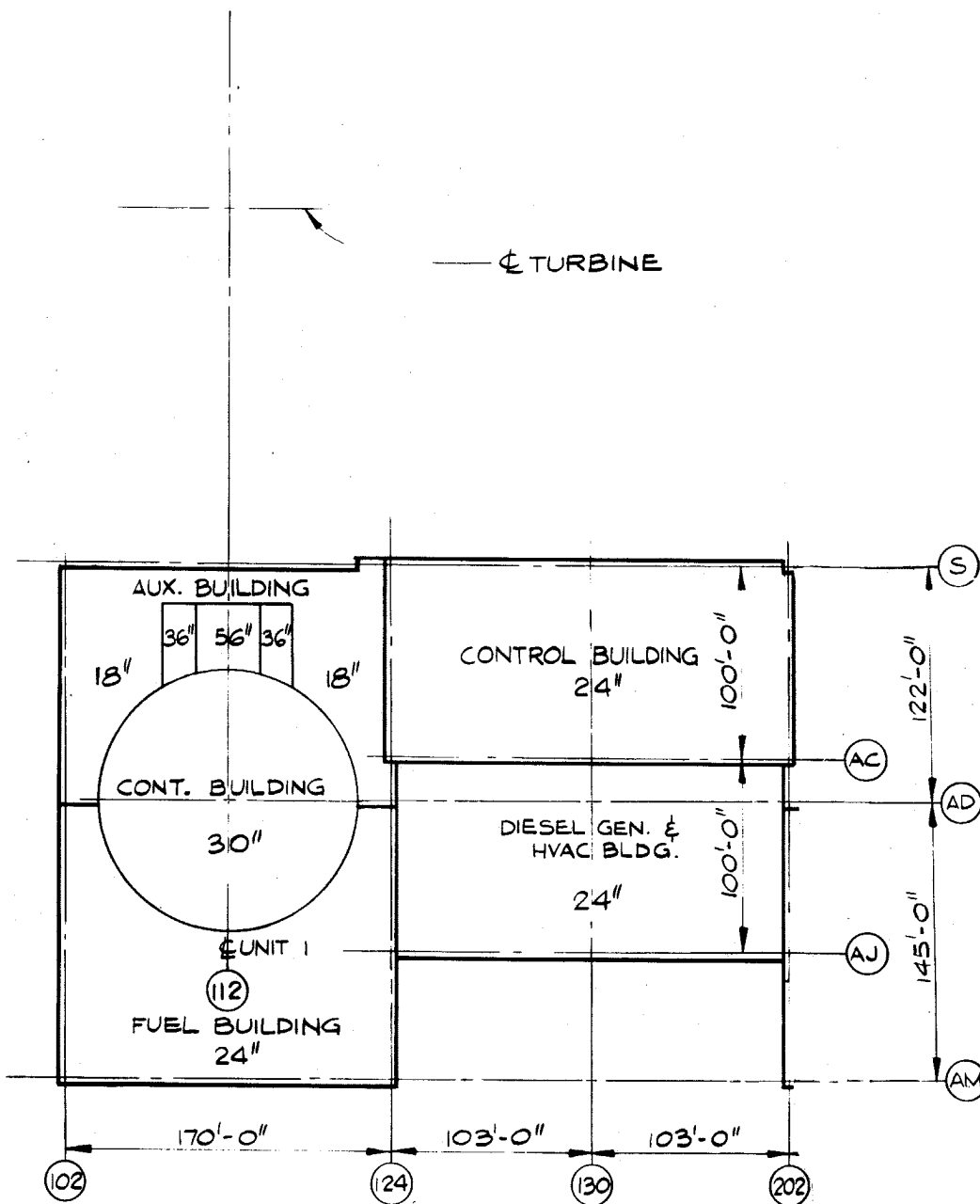
RELEASE MECHANISMS
(SKETCHES C & D)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.5-1

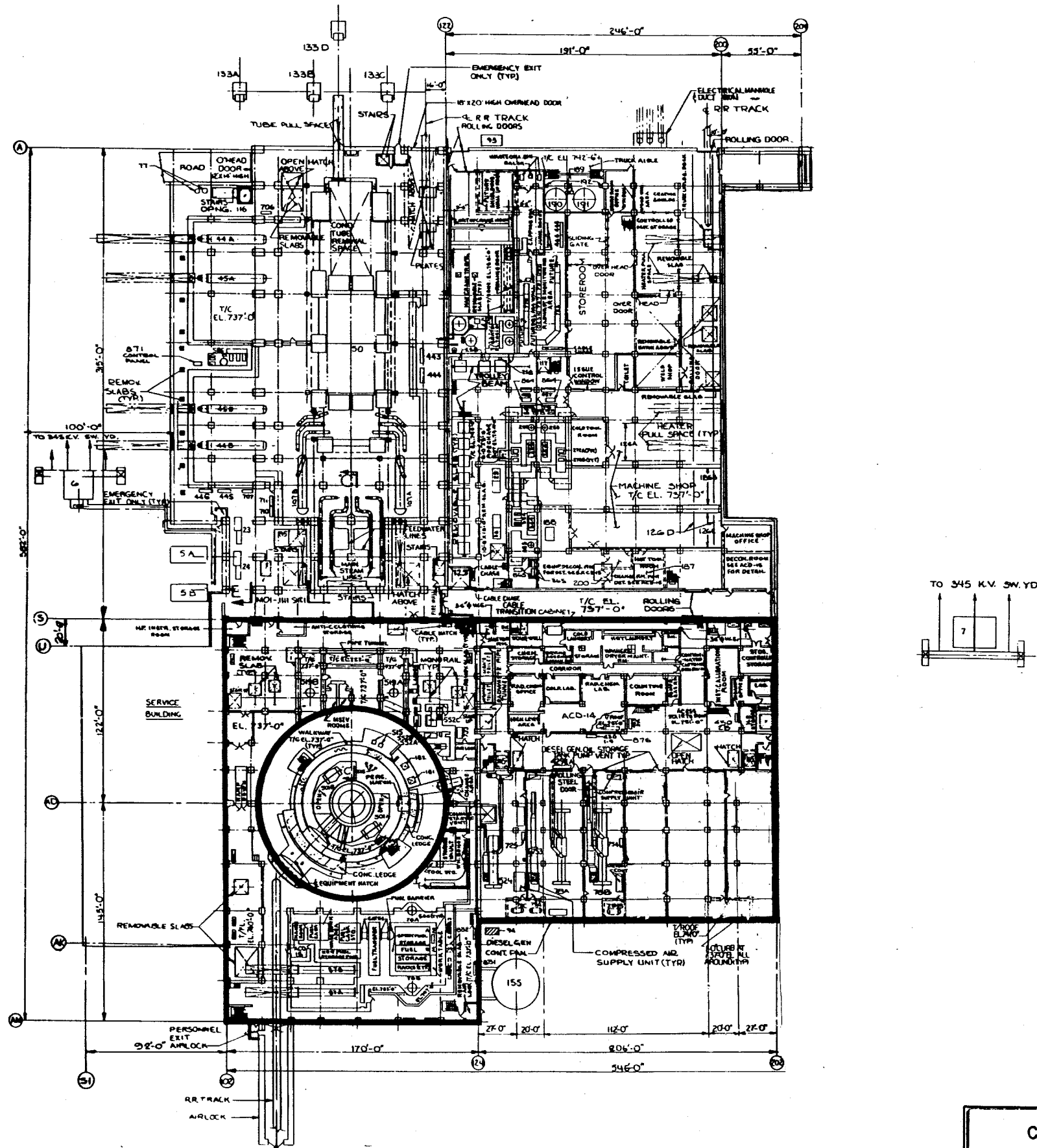
TURBINE ORIENTATION AND LOCATION



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

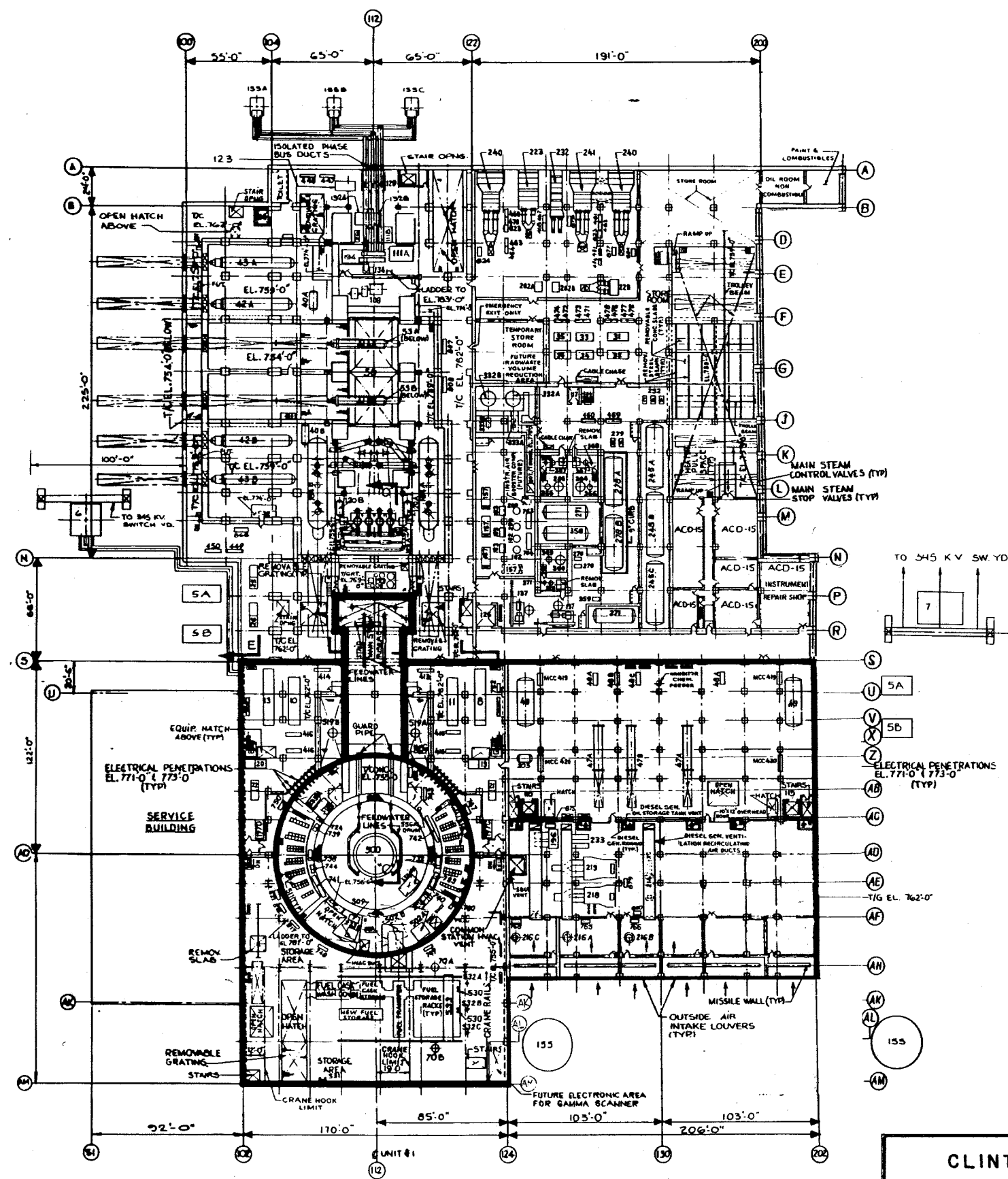
FIGURE 3.5-2

SAFETY RELATED STRUCTURES,
DIMENSION AND ROOF THICKNESS



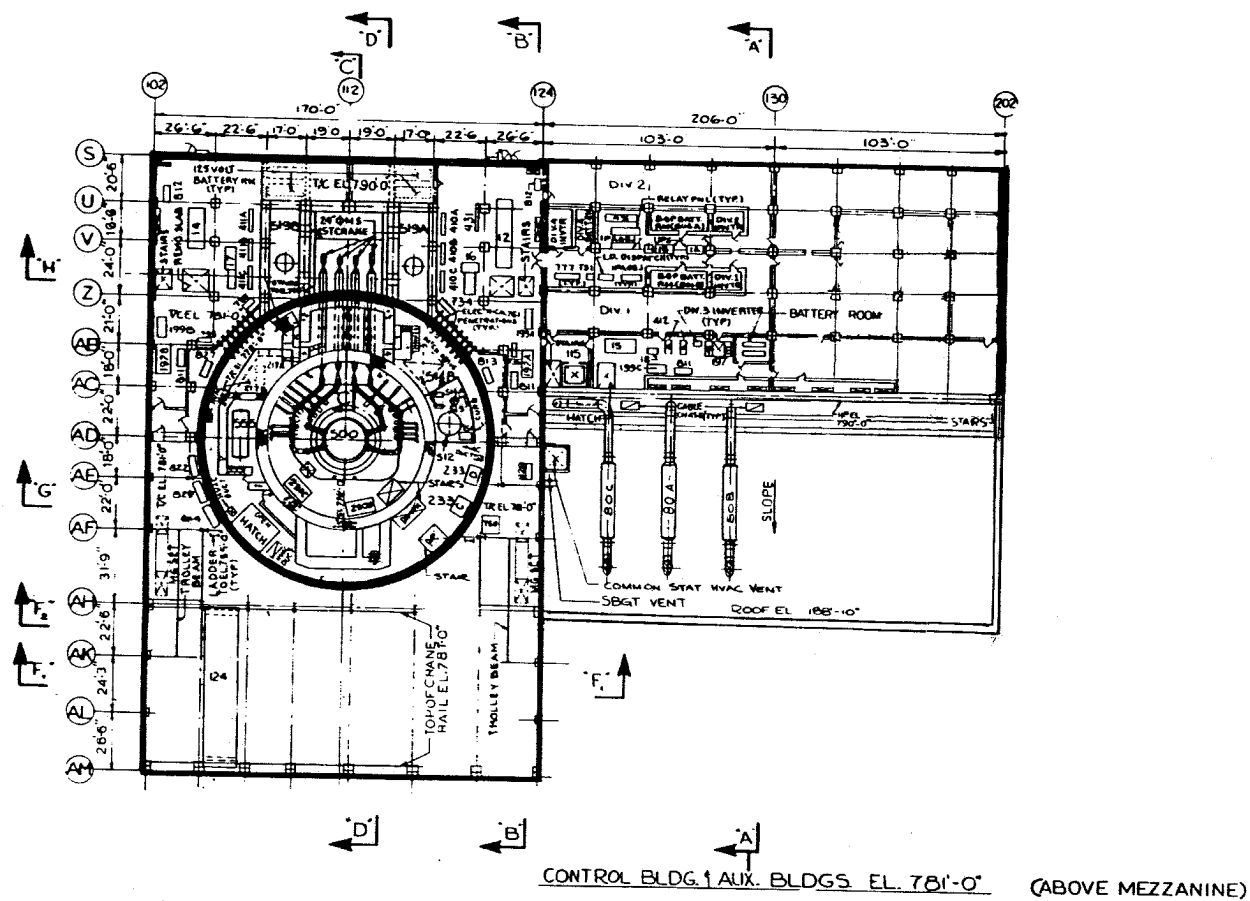
MISSILE PROOF WALLS
EL. 737'-0"

<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE 3.5-3 MISSILE PROOF WALLS (SHEET 1 OF 5)</p>

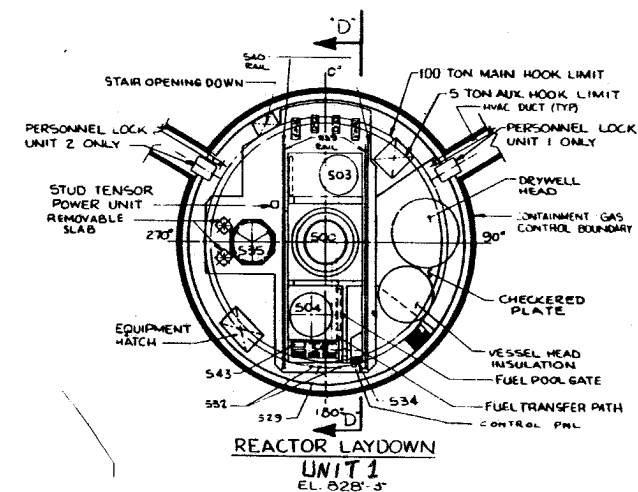
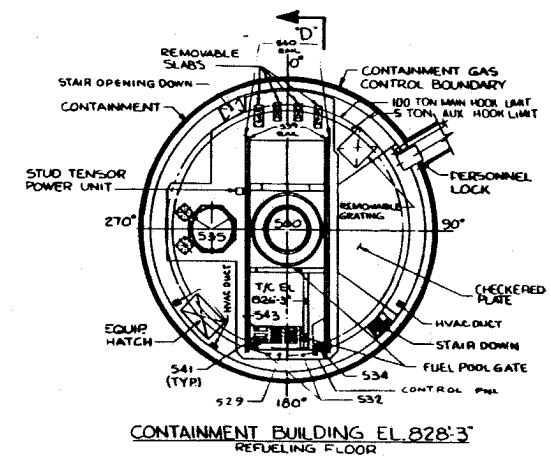


MISSILE PROOF WALLS
EL. 755'-0"

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.5-3 MISSILE PROOF WALLS (SHEET 2 OF 5)

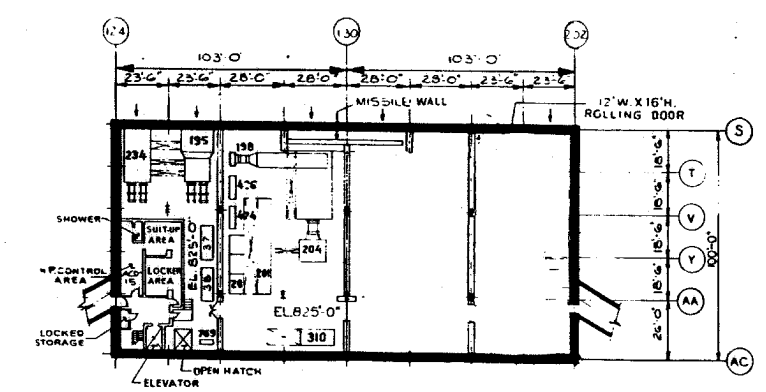
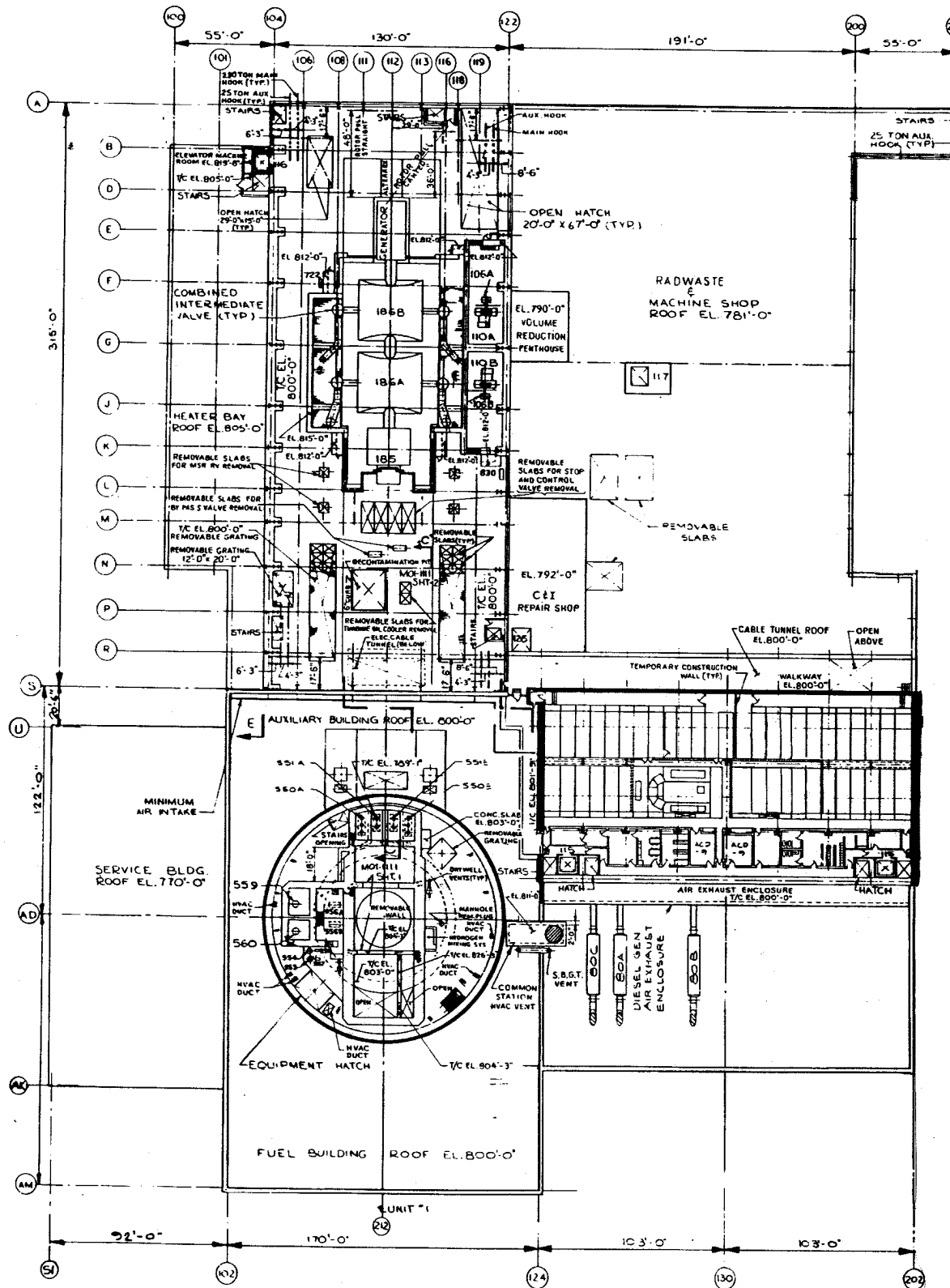


MISSILE PROOF WALLS
EL. 778'-0"



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

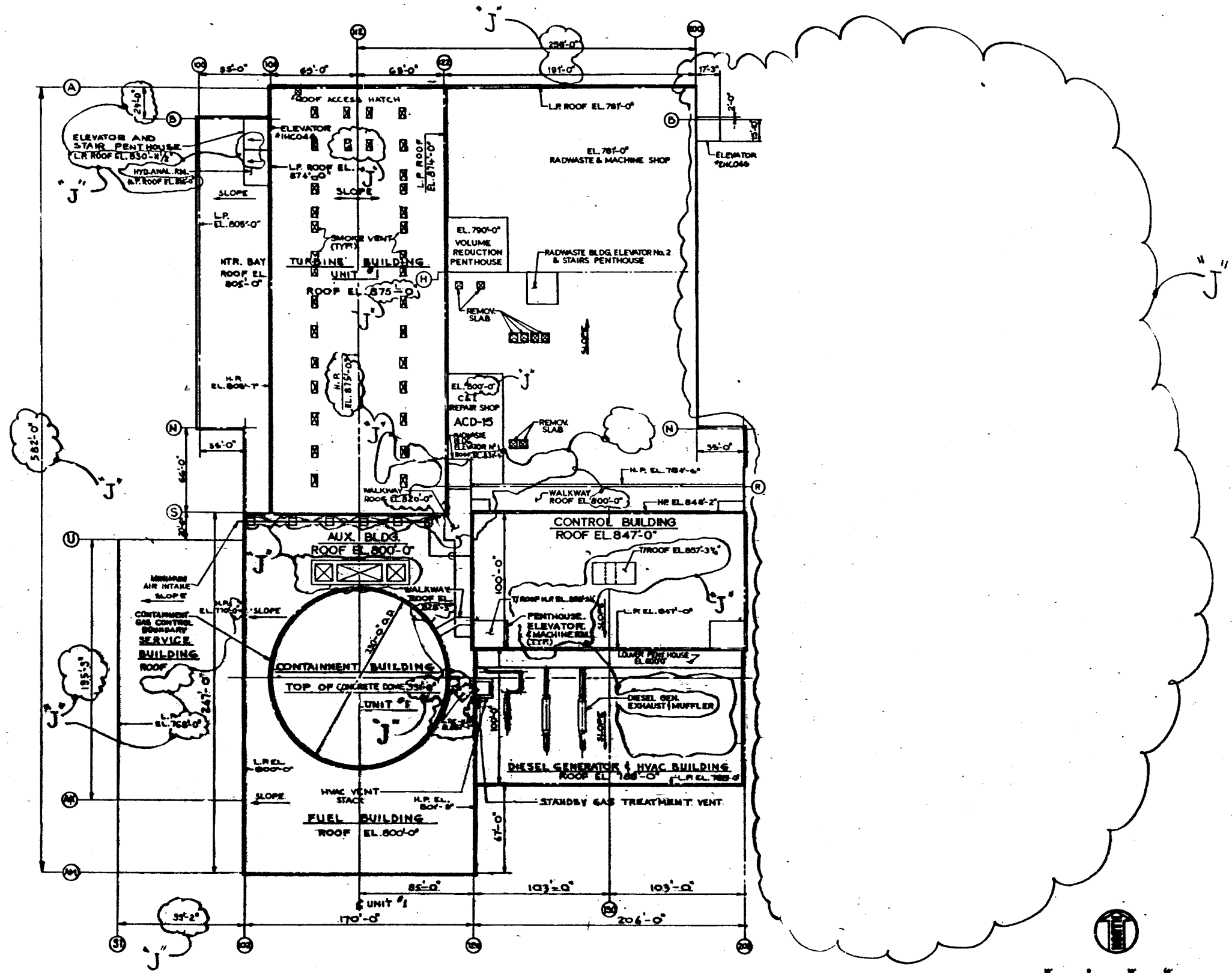
FIGURE 3.5-3
MISSILE PROOF WALLS
(SHEET 3 OF 5)



HVAC FLOOR EL. 825'-0"
(ABOVE CONTROL ROOM)

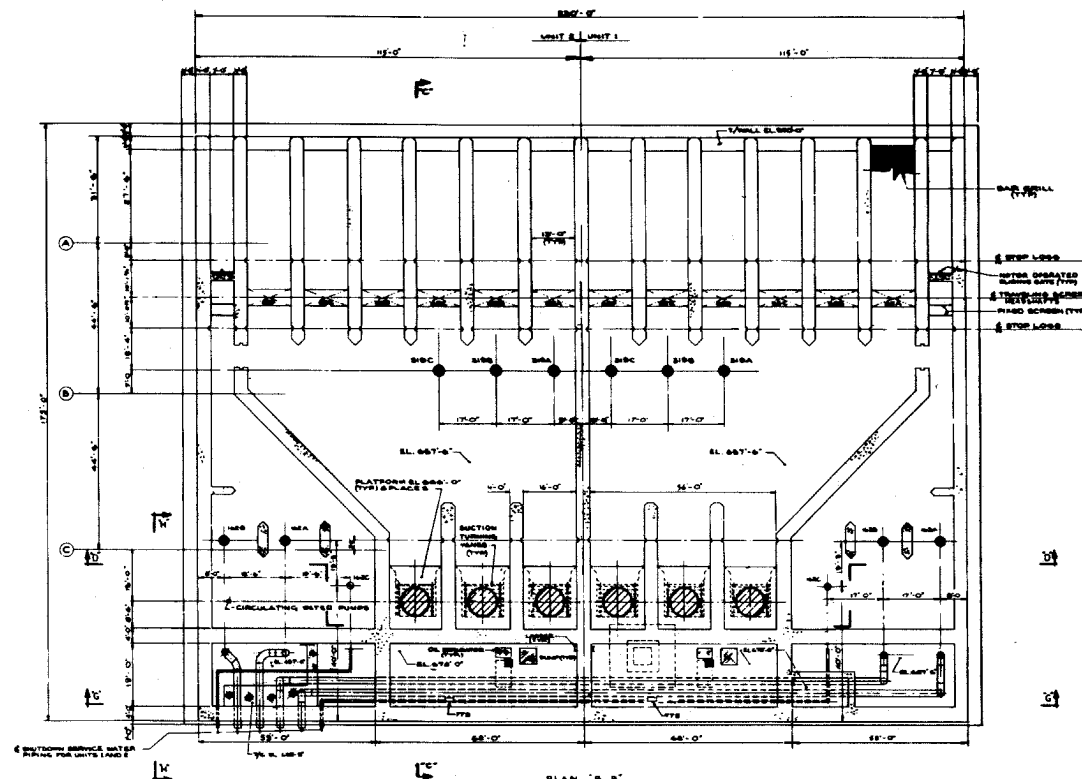
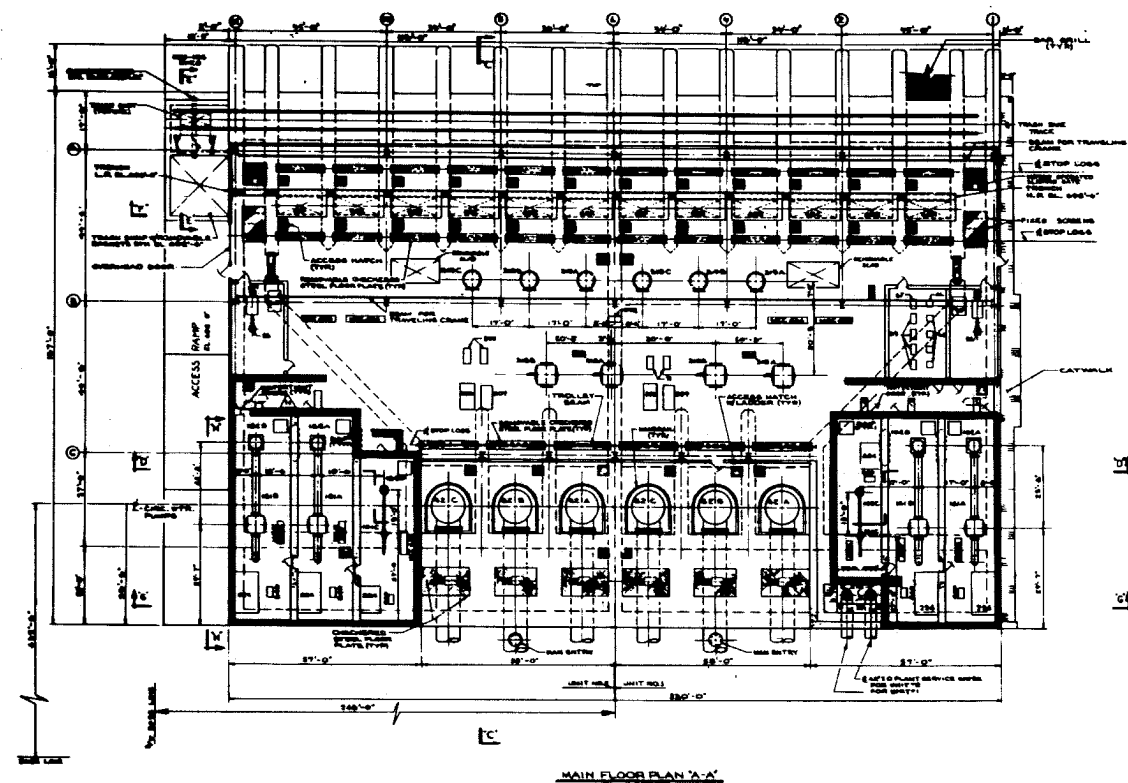
MISSILE PROOF WALLS
EL. 803'-3"

<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>	
<p>FIGURE 3.5-3</p>	
<p>MISSILE PROOF WALLS</p>	
<p>(SHEET 4 OF 5)</p>	

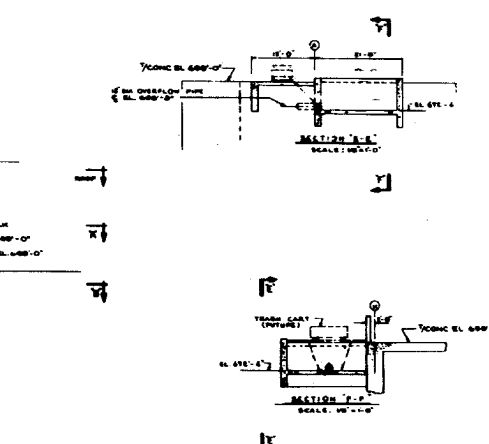
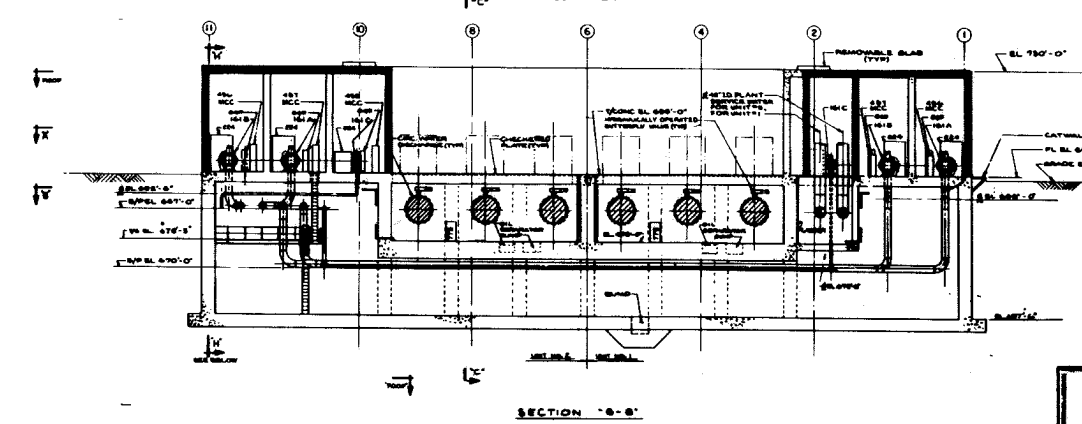
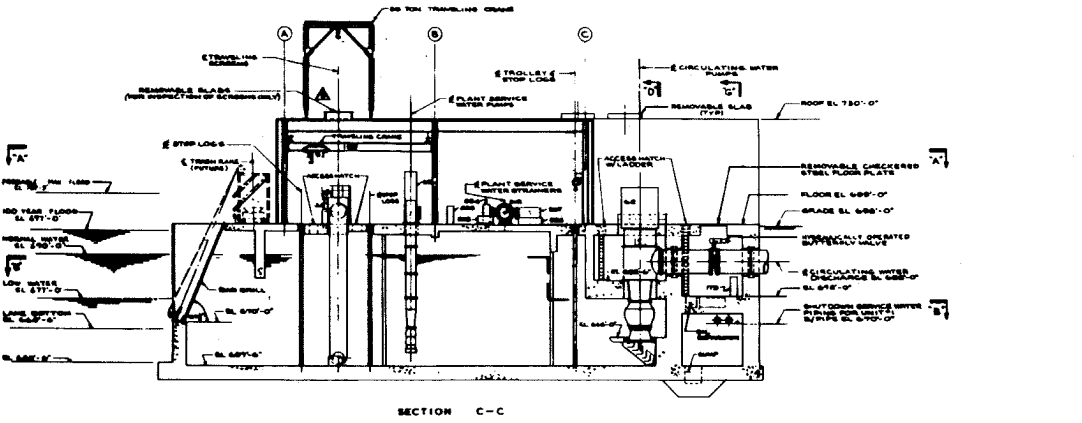
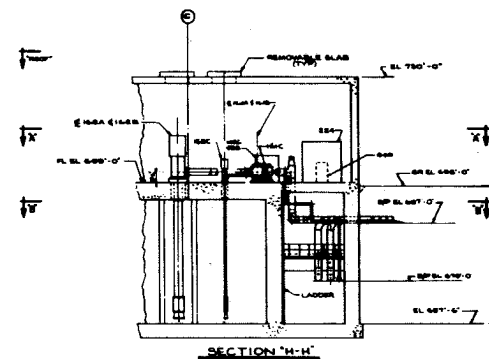
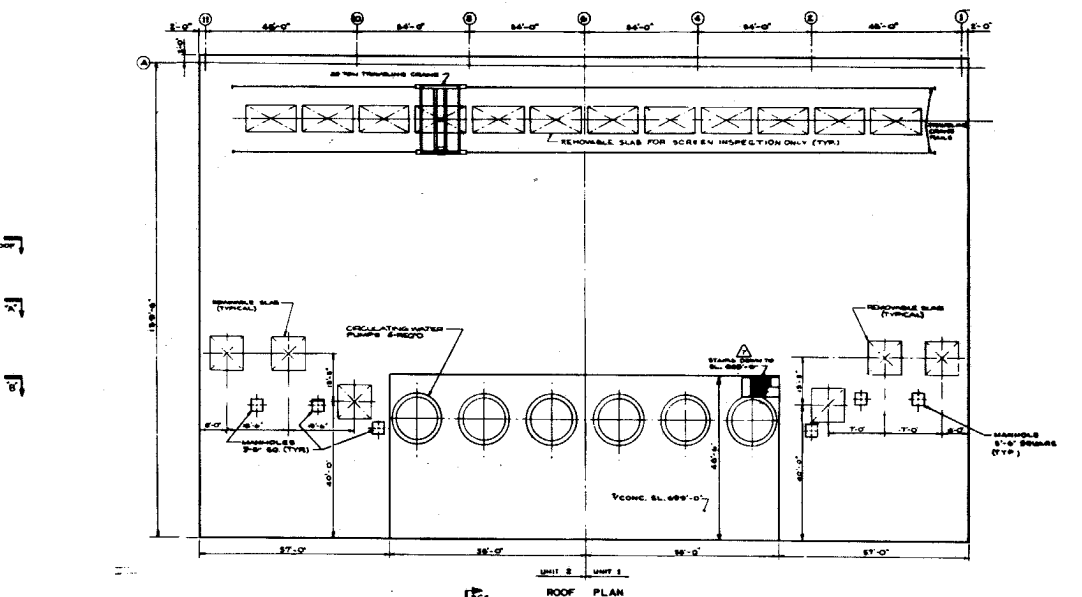
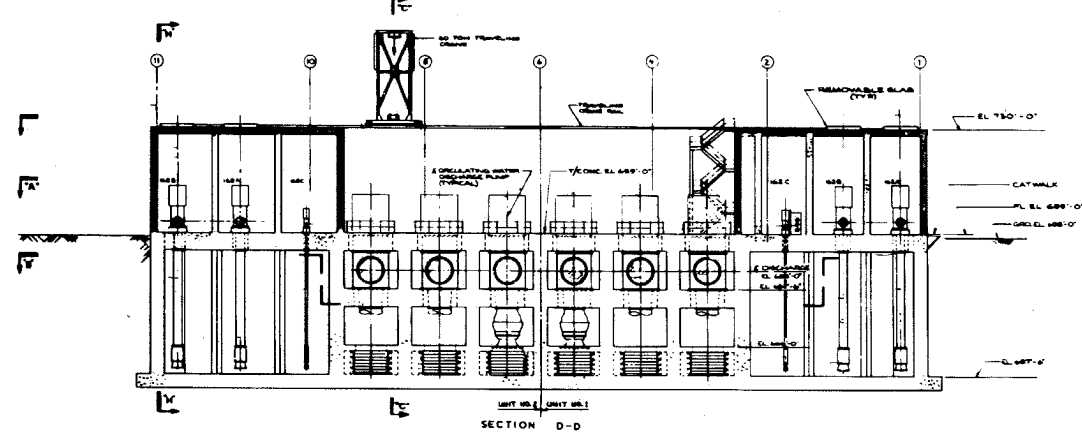


CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.5-3
 MISSILE PROOF WALLS
 (SHEET 5 OF 5)



ITEM	EQUIPMENT NAME
62	CIRC. WATER PUMPS
65	TRAVELING SCREEN
66	SERVICE WATER EVAPORATOR
67	SERVICE WATER CHLORINATOR
68	CIRC. WATER EVAPORATOR
69	CIRC. WATER CHLORINATOR
71	CIRC. WATER CHLOR BOOSTER PUMP
90	DIESEL FIRE PUMP DAY TANK
96	DIESEL DRIVEN FIRE PUMP
109	25TON TRAVELING CRANE
161	SHUTDOWN SVC WATER STRAINERS
162	SHUTDOWN SVC WATER PUMPS
224	SEW PUMP ROOM COOLING UNIT
316	PLANT SVC WATER STRAINERS
318	PLANT SVC WATER PUMPS
410/463	MOTOR CONTROL CENTER
836	INSTRUMENT PANEL
637	FIRE PUMP CONTROL PANEL
205	PSW SEAL WTR. PUMP
204	HYDRAULIC ACCUMULATOR
207	HYDRAULIC RESERVOIR

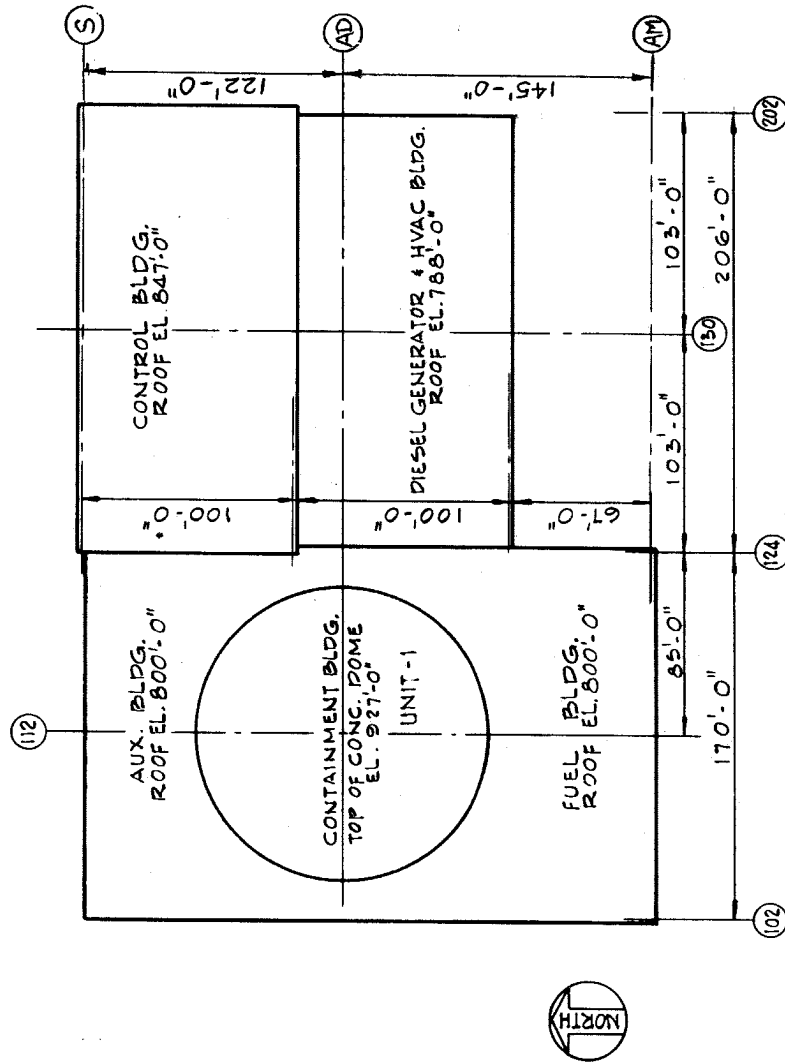


MISSILE PROOF WALLS
CIRCULATING WATER SCREEN HOUSE

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.5-4

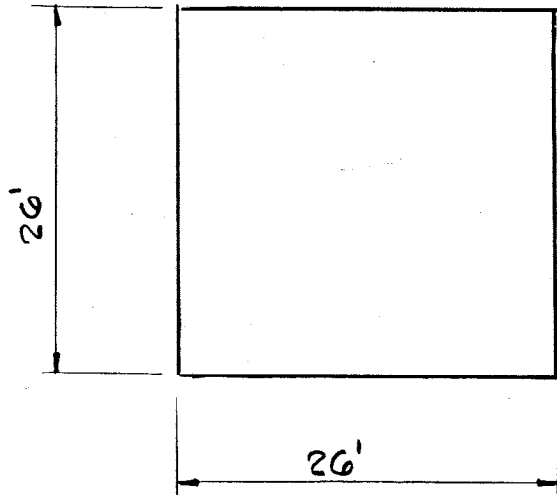
MISSILE PROOF WALLS
CIRCULATING WATER SCREEN HOUSE



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

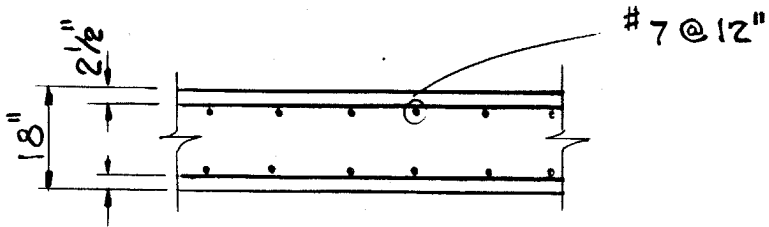
FIGURE 3.5-5

ROOF SLAB FOR MISSILE BARRIER



$f'_c = 3500 \text{ PSI}$

$f_y = 60 \text{ KSI}$







MISSILE-RESISTANT CONCRETE PANEL

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

Figure 3.5-6
 (Q & R 220.07)

MISSILE-RESISTANT CONCRETE PANEL

P&ID Color Coding Key for Piping Energy and Physical Separation Designation			
Physical Separation Division	Color	Energy Category	P&ID Designation
X (Non-Divisional)	Black	High PWA High NPWA * Moderate	
I	Yellow	High PWA High NPWA * Moderate	
II	Blue	High PWA High NPWA * Moderate	
III	Green	High PWA High NPWA * Moderate	

NOTES:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

“High PWA” – those lines which are considered to be high energy (refer to subsection 3.6.1.1.1.b) and therefore subject to pipe rupture analysis.

“High NPWA” – those lines which are considered to be moderate energy and not subject to pipe rupture analysis. Those lines fall under the definition in subsection 3.6.2.1.4. These lines operate within the pressure and temperature conditions specified for high energy for short operational periods, or they are high energy but exempted under the size criteria (less than or equal to 1” nominal pipe size).

“Moderate” – those lines which are considered to be moderate energy (refer to subsection 3.6.1.1.1.c).

* There is no differentiation between moderate energy and low energy.

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
Figure 3.6-1 Sheet 1 of 111 DIVISIONAL SEPARATION AND HIGH ENERGY P&IDs - NOTES

NOTE:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

INDEX OF SYSTEMS

<u>Sheet Number(s)</u>	<u>System</u>
5 to 10	Main Steam
11 to 13	Extraction Steam
14	Reactor Feedwater
15	Condensate
16	Condensate Booster
17 to 21	Feedwater Heater Drains – Turbine Cycle
22 & 23	Feedwater Heater Miscellaneous Vents and Drains
24 to 27	Turbine-Generator Miscellaneous Vents and Drains
28 & 29	Turbine Gland Steam Seal System
30 to 33	Auxiliary Steam
34 to 38	Component Cooling Water
39 to 41	Containment Monitoring System
42 & 43	Diesel Generator Fuel Oil System
44 to 46	Fuel Pool Cooling and Cleanup
47 to 51	Shutdown Service Water
52	Combustible Gas Control System
53	Suppression Pool Makeup
54	MSIV Leakage Control System
55 & 56	Nuclear Boiler
57 to 59	Reactor Recirculation
60	Low Pressure Core Spray
61	High Pressure Core Spray
62 to 65	Residual Heat Removal
66 to 69	Reactor Water Cleanup

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.6-1
Sheet 2 of 111

DIVISIONAL SEPARATION AND
HIGH ENERGY P&IDs
INDEX OF SYSTEMS

NOTE:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

INDEX OF SYSTEMS

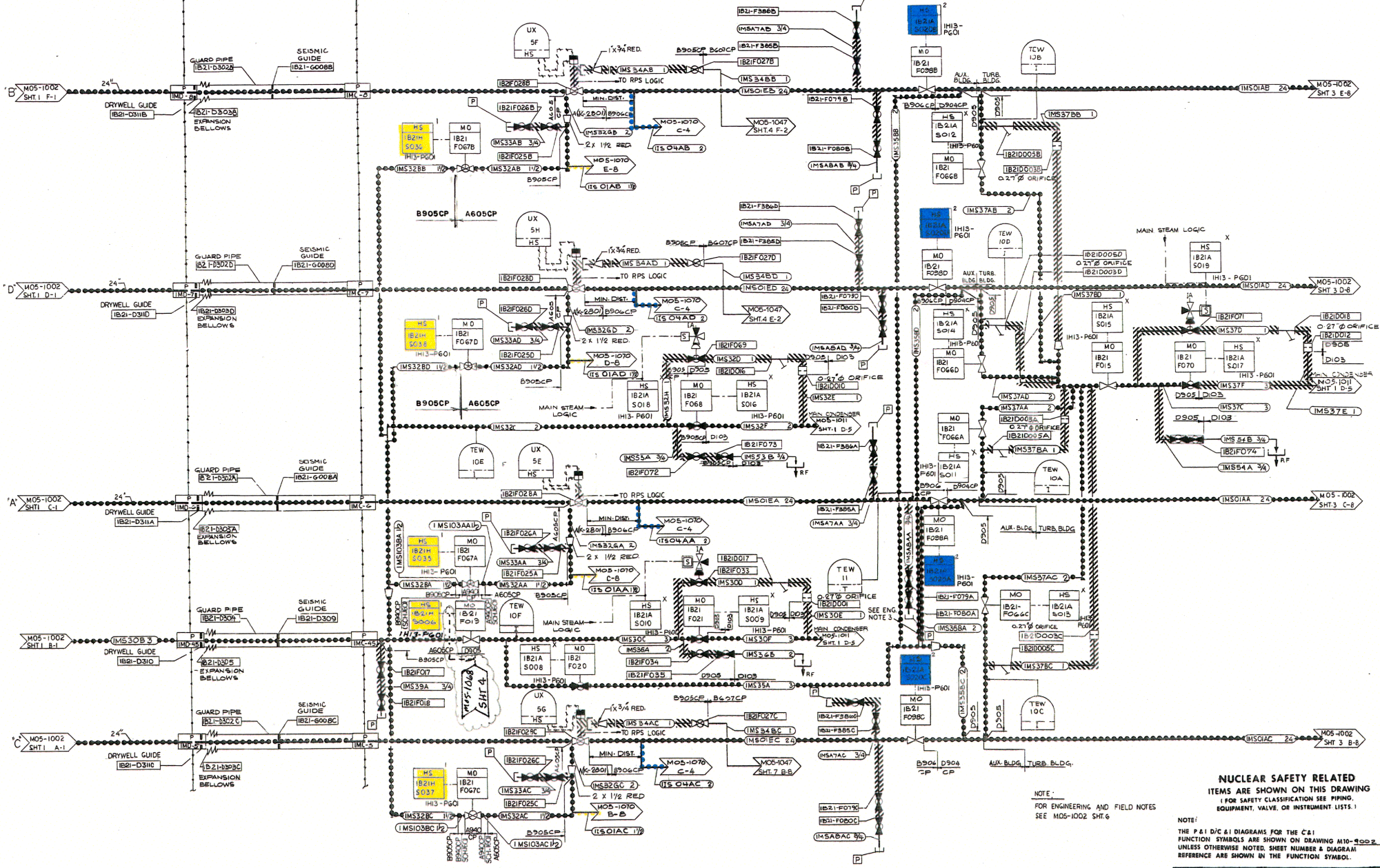
<u>Sheet Number(s)</u>	<u>System</u>
70	Standby Liquid Control
71	Control Rod Drive
72 & 73	Reactor Core Isolation Cooling
74 to 76	Off Gas
77 & 78	Floor Drain Readwaste Process
79 to 81	Chemical Radwaste Reprocessing and Disposal Radwaste Evaporator
82 & 83	Radwaste Sludge Process Concentrate Tank
84 to 90	Control Room HVAC
90A	Laboratory HVAC System
91	Diesel Generator Room Ventilation
92	Fuel Building HVAC
93 & 94	Standby Gas Treatment System
95	Shutdown Service Water System
96 & 97	Drywell Cooling Chilled Water System
98	Drywell Purge
99	Containment Building HVAC
100 to 102	Essential Switchgear Heat Removal
103 & 104	ECCS Equipment Room Cooling
105 & 106	Refrigeration Piping Switchgear Heat Removal
107	Combustible Gas Control System
108 & 109	Radwaste Floor Drain Process
110 & 111	Control Rod Drive System

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.6-1
Sheet 3 of 111

DIVISIONAL SEPARATION AND
HIGH ENERGY P&IDs
INDEX OF SYSTEMS

Figure 3.6-1 Sheet 4 of 111 has been deleted



NOTE:
FOR ENGINEERING AND FIELD NOTES
SEE MOS-1002 SHT. 6

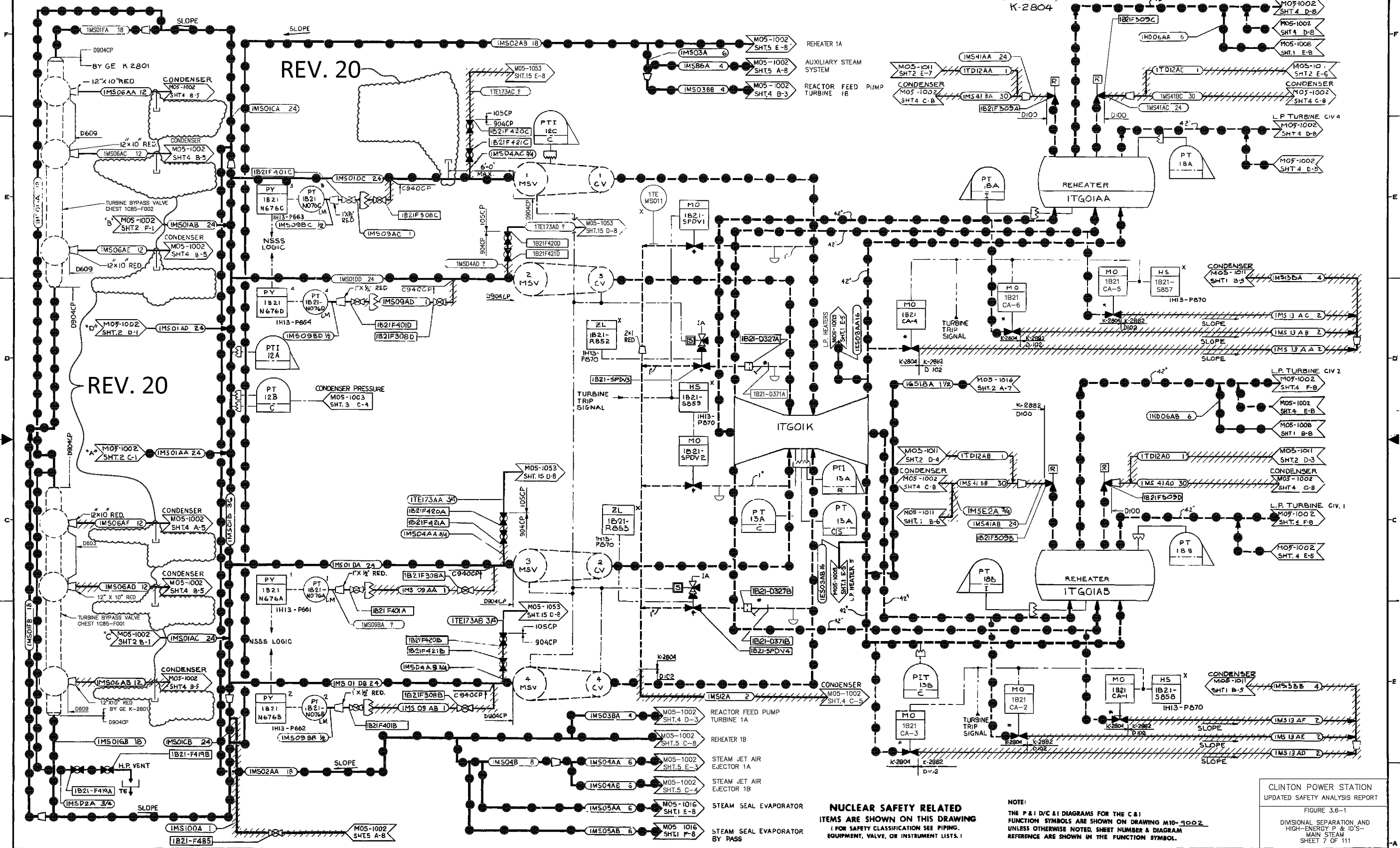
NOTE:
THE P&ID DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-000-2
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

**NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE Piping,
EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)**

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S -
MAIN STEAM
SHEET 6 OF 111

REV. 20

REV. 20



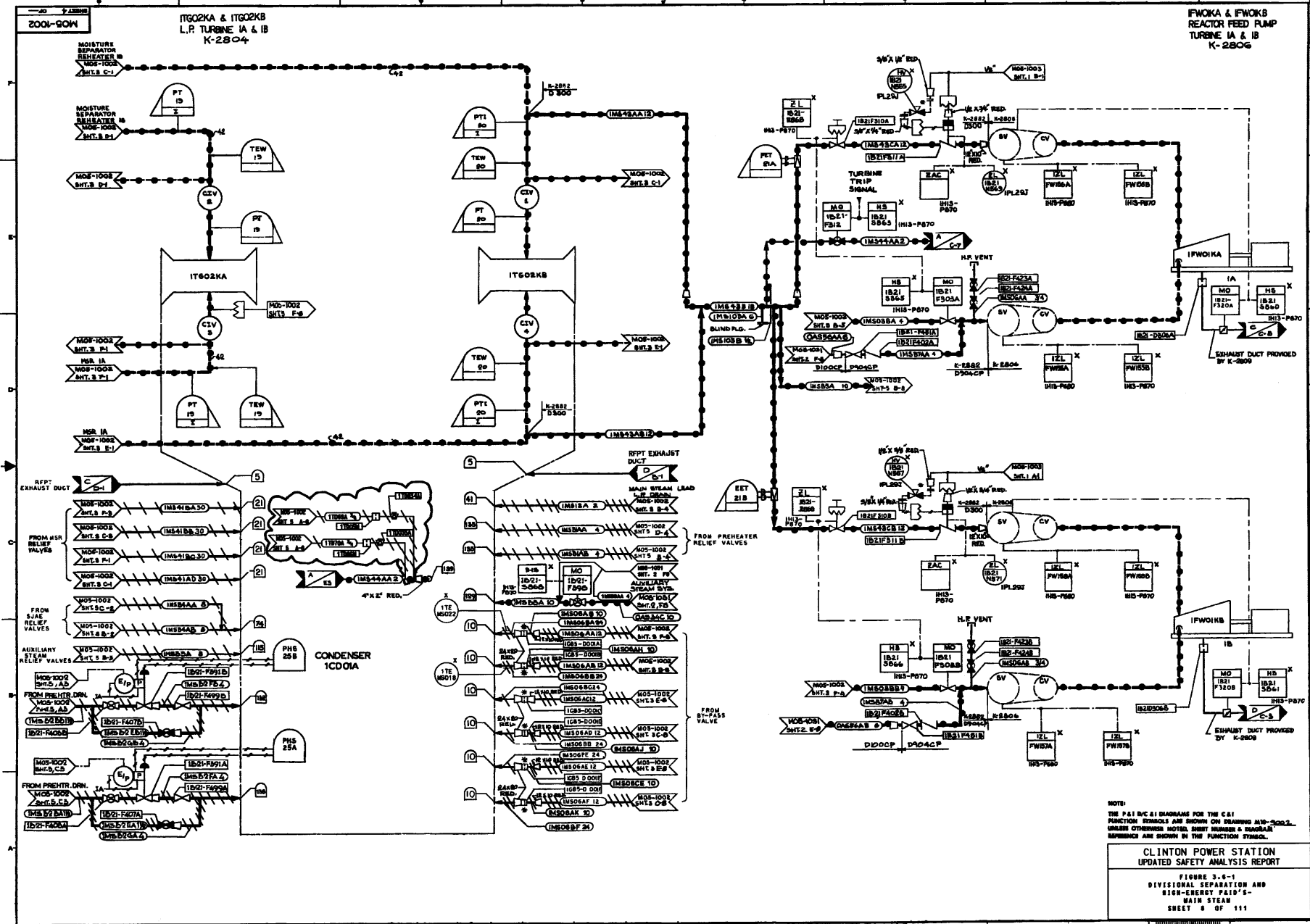
NUCLEAR SAFETY RELATED
 ITEMS ARE SHOWN ON THIS DRAWING
 (FOR SAFETY CLASSIFICATION SEE PIPING,
 EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
 THE P & I D/C & I DIAGRAMS FOR THE C & I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1002
 UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
 REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

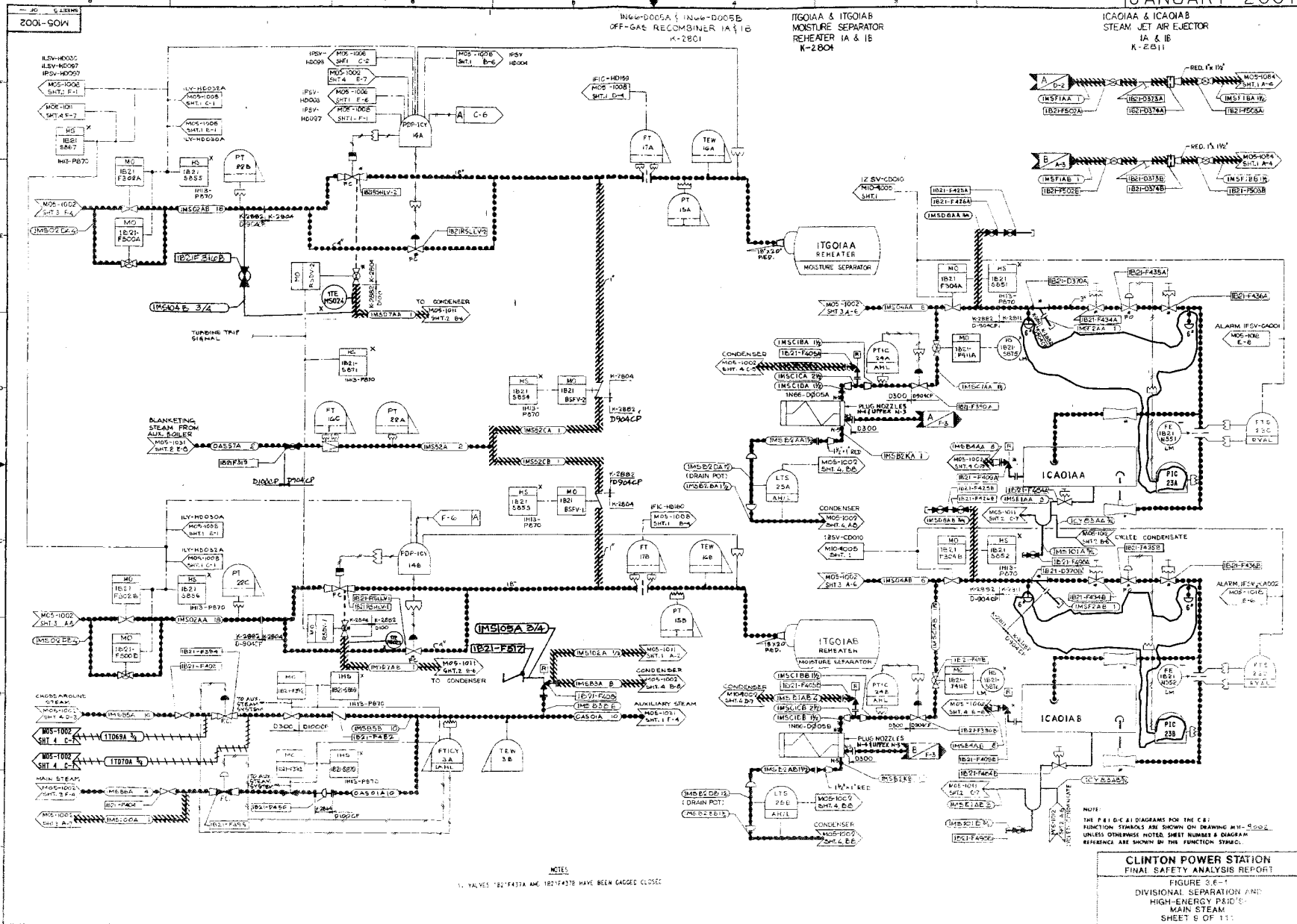
CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISION SEPARATION AND
 HIGH-ENERGY P & I'S -
 MAIN STEAM
 SHEET 7 OF 111

30" x 42" 2D at 1"=1"

REVISION 11
JANUARY 2005



REVISION 12
JANUARY 2007



NOTES

1. VALVES 1B21-F437A AND 1B21-F437B HAVE BEEN CAGED CLOSED

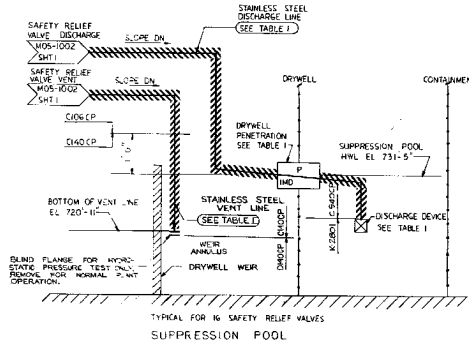
NOTE:
THE P&ID'S DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M&E-2002
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOLS.

CLINTON POWER STATION
FINAL SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY PADS'
MAIN STEAM
SHEET 5 OF 11

2001-GOW

TABLE I (SEE ENGINEERING NOTE 4)

SAFETY RELIEF VALVE NUMBERS	1B21F041A	1B21F041B	1B21F041C	1B21F041D	1B21F041F	1B21F041G	1B21F041H	1B21F041A	1B21F041B	1B21F041C	1B21F041D	1B21F041F	1B21F051B	1B21F051C	1B21F051D	1B21F051G
ADS OR NON-ADS FUNCTION	NON-ADS	ADS	ADS	ADS	ADS	NON-ADS	NON-ADS	ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	ADS
VENT LINE NUMBER	1MSA3BJ	1MSA3BB	1MSA3BL	1MSA3BF	1MSA3BD	1MSA3BN	1MSA3BQ	1MSA3BK	1MSA3BA	1MSA3BP	1MSA3BE	1MSA3BC	1MSA3BM	1MSA3BH	1MSA3BR	
DISCHARGE LINE NUMBER	1MS14CA	1MS15CB	1MS14CC	1MS14CD	1MS17CB	1MS16CC	1MS18CC	1MS19CA	1MS14CB	1MS17CC	1MS15CD	1MS18CB	1MS16CB	1MS19CC	1MS19CC	
DISCHARGE DEVICE EQUIPMENT NUMBER SPECIFICATION K-2801	1T236024A	1T236028B	1T236031K	1T236031D	1T236024L	1T236024F	1T236024S	1T236024N	1T236024J	1T236024K	1T236024L	1T236024M	1T236024N	1T236024P	1T236024R	1T236024S
DRYWELL PENETRATION NUMBER	1MD-19	1MD-27	1MD-25	1MD-31	1MD-29	1MD-23	1MD-21	1MD-18	1MD-26	1MD-22	1MD-32	1MD-30	1MD-28	1MD-24	1MD-33	1MD-20
RELIEF VALVE SET (PSIG)	RELIEF 1123	RELIEF 1165	RELIEF 1165	RELIEF 1165	RELIEF 1165	RELIEF 1165	RELIEF 1165	RELIEF 1180	RELIEF 1180	RELIEF 1180	RELIEF 1180	RELIEF 1180	RELIEF 1190	RELIEF 1190	RELIEF 1190	RELIEF 1190



FIELD NOTES :

1. FOR NUCLEAR BOILER SYSTEM (NB) LOGIC SEE G.F. DRAWING B28E151
2. FOR REACTOR PROTECTION SYSTEM (RPS) LOGIC SEE G.E. DRAWING B78E317

ENGINEERING NOTES :

1. ALL MAIN STEAM DRAIN LINES AND SAFETY RELIEF VALVES DISCHARGE AND VENT LINES SHALL SLOPE IN DIRECTION OF FLOW 1/8 INCH PER FT MINIMUM.
2. BY-PASS LINES 1MS358A, 1MS358B, 1MS358C AND 1MS358D SHALL BE CONNECTED TO THE TOPS OF THE MAIN STEAM LINES.
3. VALVES 1B21F027A, 1B21F027B, 1B21F027C AND 1B21F027D SHALL BE LOCATED OUTSIDE OF SHIELDING WALLS AND BE ACCESSIBLE DURING NORMAL PLANT OPERATION.
4. ALL MAIN STEAM SAFETY RELIEF VALVES ARE MANUFACTURED BY "DUNKER" AND FURNISHED UNDER SPECIFICATION K-2801 SIZE 8"X10" WITH RATED DISCHARGE OF 525,000 LBS PER HOUR AT AN INLET PRESSURE OF 103 PERCENT OF 1205 PSIG.

MIDC. RELIEF VALVE TABULATION

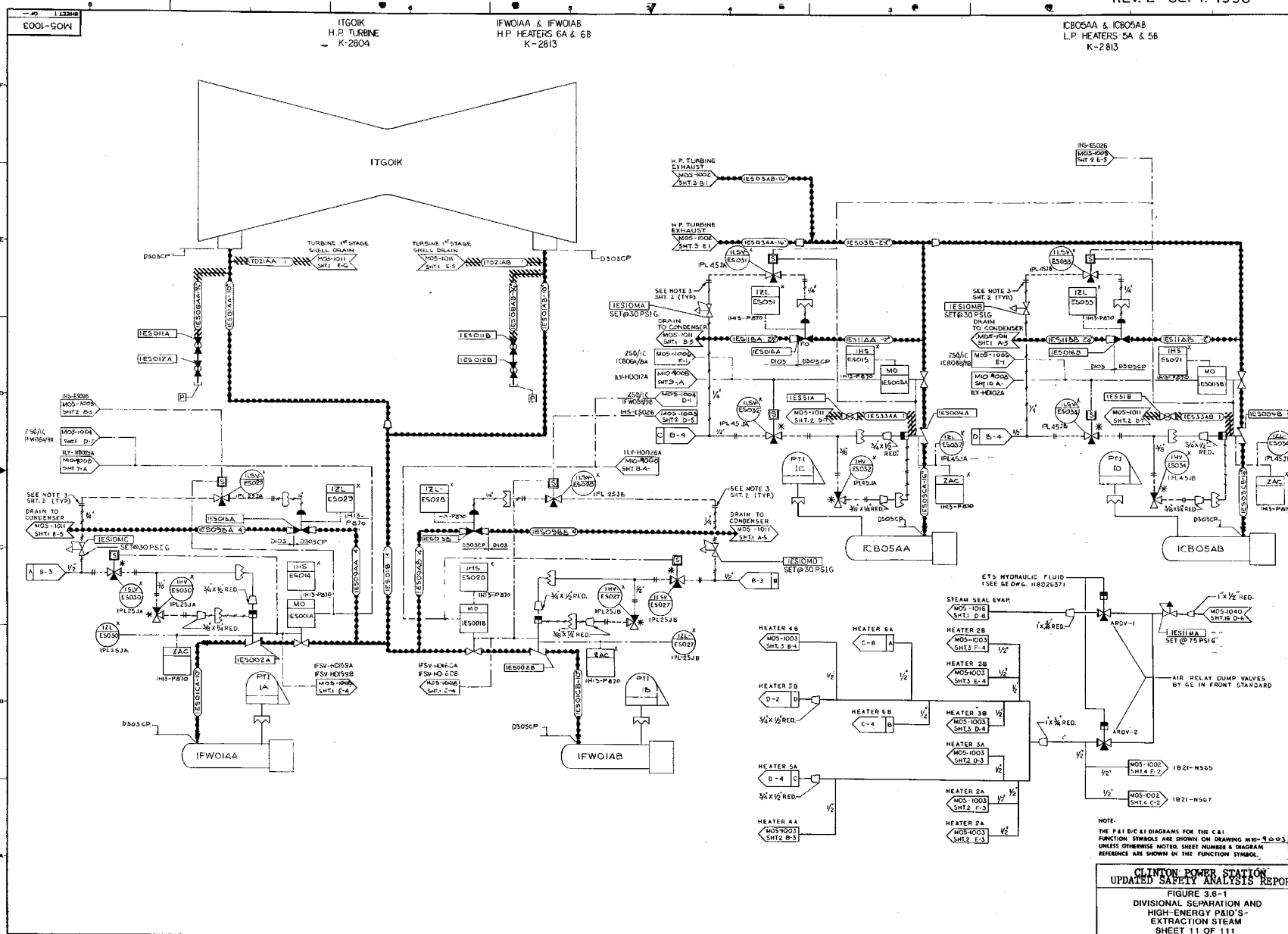
LOCATION	VALVE NUMBER	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESS (PSIG)	MODEL NUMBER	FURNISHED BY
STEAM JET AIR EJECTOR 1A	1B21-F409A	4 X 6	120,000	3.30	JO-35-A	K-2811
STEAM JET AIR EJECTOR 1B	1B21-F409B	4 X 6	120,000	3.30	JO-35-A	K-2811
PREHEATER STEAM INLET 1A	1B21-F405A	2 1/2 X 4	26,206	3.5 0	21-110-302P	K-2869
PREHEATER STEAM INLET 1B	1B21-F405B	2 1/2 X 4	26,206	3.5 0	21-110-302P	K-2869
MAIN STEAM HEADER	1B21-F408	6 X 8	124,067	125	6-1105-302P	K-2869
MSR 1A	1B21-F309A	20 X 24	2.65x10 ⁶	272	N/A	K-2804
MSR 1B	1B21-F309B	18 X 24	2.09x10 ⁶	265	N/A	K-2804
MSR 1A	1B21-F309C	18 X 24	2.04x10 ⁶	258	N/A	K-2804
MSR 1B	1B21-F309D	20 X 24	2.66x10 ⁶	275	N/A	K-2804

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVES OR INSTRUMENT LISTS 1

NOTE: THE P&I D/C B1 DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING MID-3002 UNLESS OTHERWISE NOTED, SHEET NUMBER 6 DIAGRAM

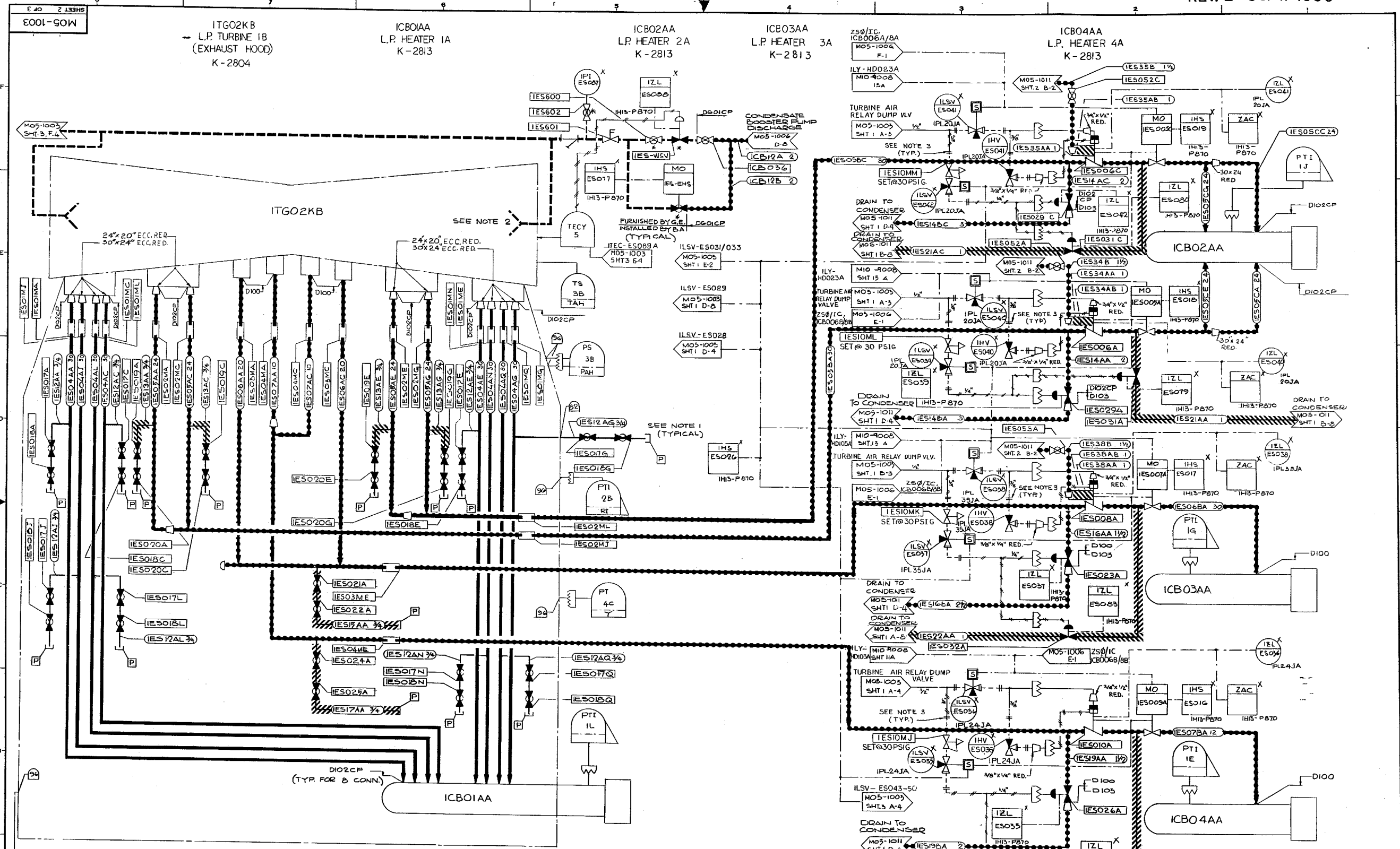
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-MAIN STEAM
SHEET 10 OF 111



NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M0-100-03
 UNLESS OTHERWISE NOTED SHEET NUMBER & DIAGRAM
 REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.8-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 EXTRACTION STEAM
 SHEET 11 OF 111



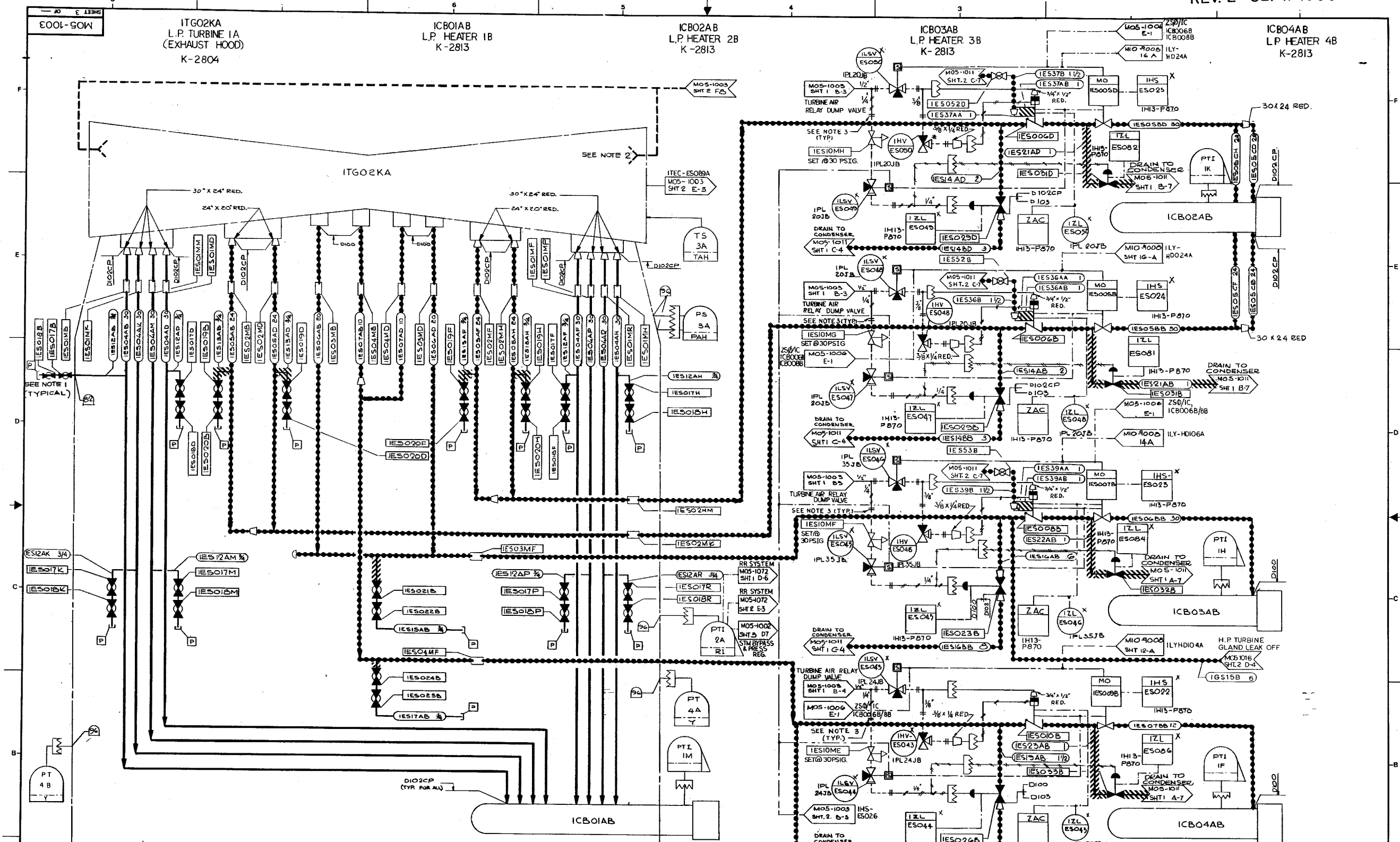
NOTE 1: ALL TEST CONNECTIONS & VALVES PENETRATE CONDENSER SHELL AS SHOWN FOR LIST OF CONDENSER CONNECTIONS DENOTED BY SEE WESTINGHOUSE DWG. 737J012.

2 EXHAUST HOOD WATER SPRAY NOZZLES FOUR NOZZLES AT EACH END OF EACH HOOD.

3. FOR INSTRUMENT AIR LINES SYMBOL DENOTES CONNECTION TO PANEL AND END OF FIELD ROUTED AIR LINES. SPECIFICATION BREAK IS K-2882, K-2915

NOTE: THE P&ID/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9003 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 EXTRACTION STEAM
 SHEET 12 OF 111



NOTES:

1. ALL TEST CONNECTIONS & VALVES PENETRATE CONDENSER SHELLS AS SHOWN. FOR LIST OF CONDENSED CONNECTIONS NOTED BY \square SEE WESTINGHOUSE DWG. 737J012.

2. EXHAUST HOOD WATER SPRAY NOZZLES, FOUR NOZZLES AT EACH END OF EACH HOOD.

3. FOR INSTRUMENT AIR LINES $\text{---} \text{---}$ DENOTES CONNECTION TO PANEL AND END OF FIELD ROUTED AIR LINES. SPECIFICATION BREAK IS K-2882 K-2915

NOTE THE P&ID/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9003 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM

IFWOIPA & IFWOIPB
REACTOR FEED PUMP IA & IB
TURBINE DRIVEN
K-2820

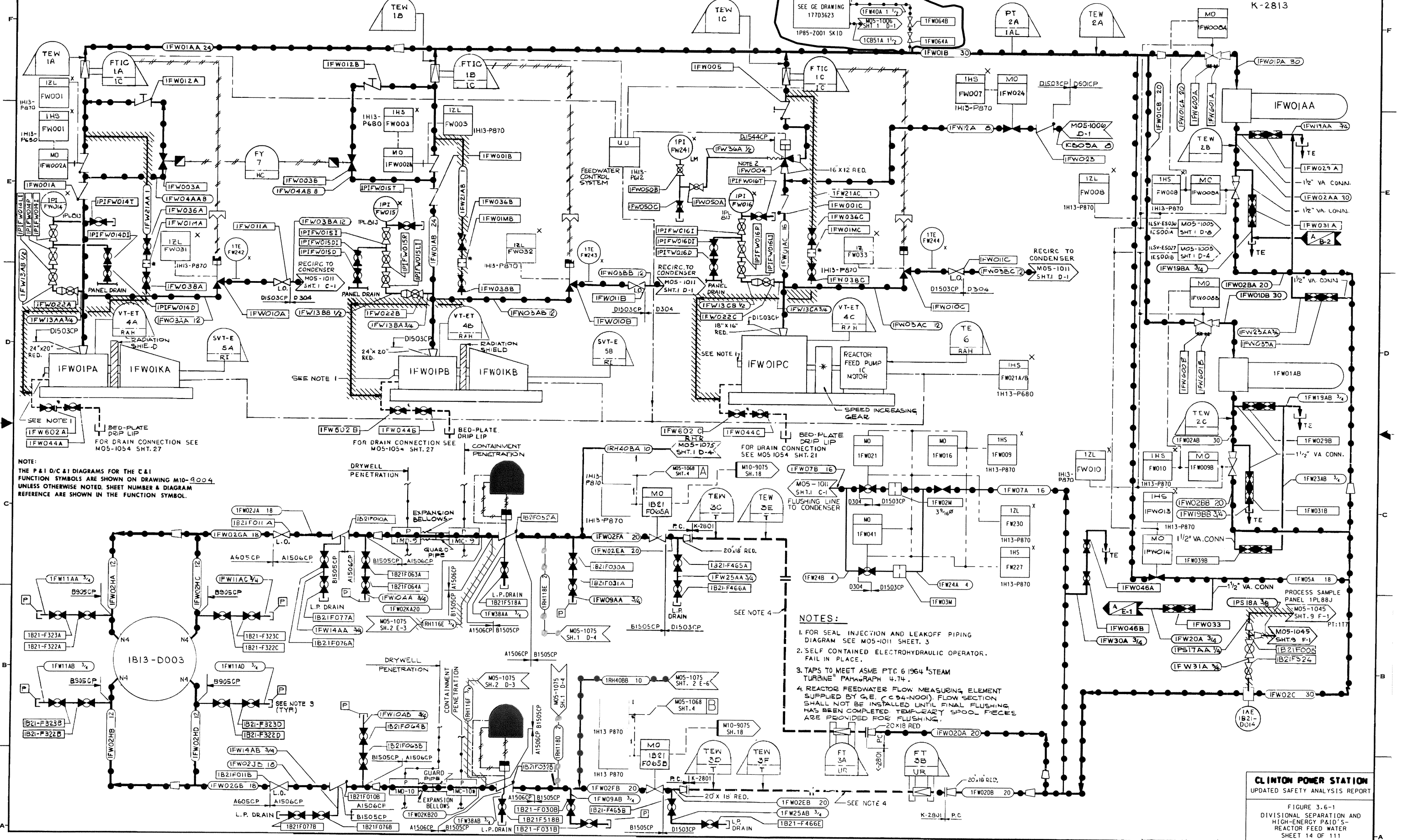
IB13-D003
REACTOR PRESSURE
VESSEL
K-2801

IFWOIKA & KB
REACTOR FEED PUMPS IA & IB
TURBINE DRIVES
K-2806

IFWOIPC
REACTOR FEED PUMP IC
MOTOR DRIVEN
K-2820

REACTOR FEED PUMP IC
MOTOR
K-2970

IFWOIAA & IFWOIAB
HP HEATER 6A & 6B
K-2813

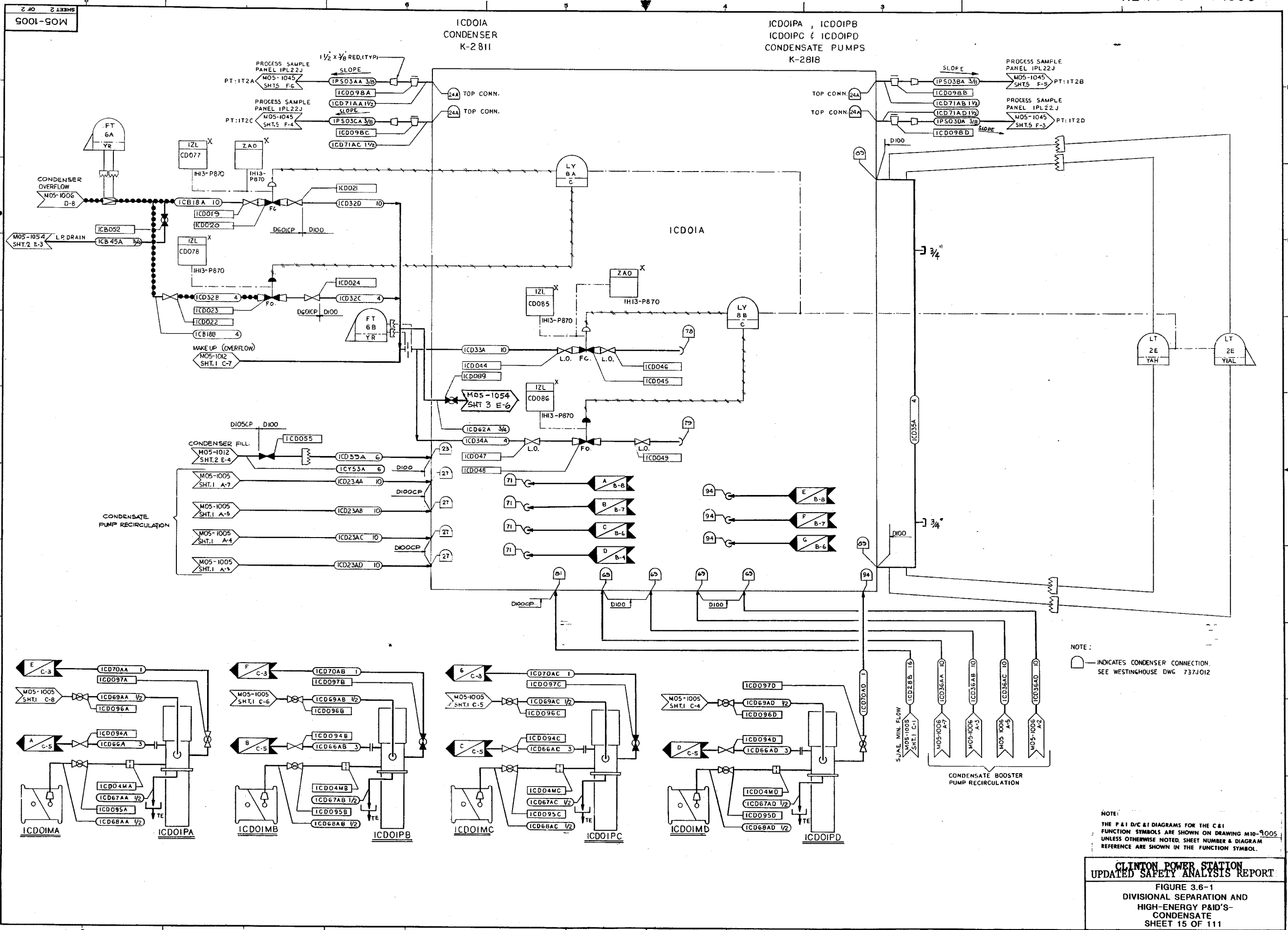



NOTE:
THE P&I D/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-0004
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

- NOTES:
1. FOR SEAL INJECTION AND LEAKOFF PIPING
DIAGRAM SEE MOS-1011 SHEET. 3
 2. SELF CONTAINED ELECTROHYDRAULIC OPERATOR.
FAIL IN PLACE.
 3. TAPS TO MEET ASME PTC 6 1964 STEAM
TURBINE PARAGRAPH 4.74.
 4. REACTOR FEEDWATER FLOW MEASURING ELEMENT
SUPPLIED BY G.E. (C34-NOO). FLOW SECTION
SHALL NOT BE INSTALLED UNTIL FINAL FLUSHING
HAS BEEN COMPLETED. TEMPORARY SPOOL PIECES
ARE PROVIDED FOR FLUSHING.

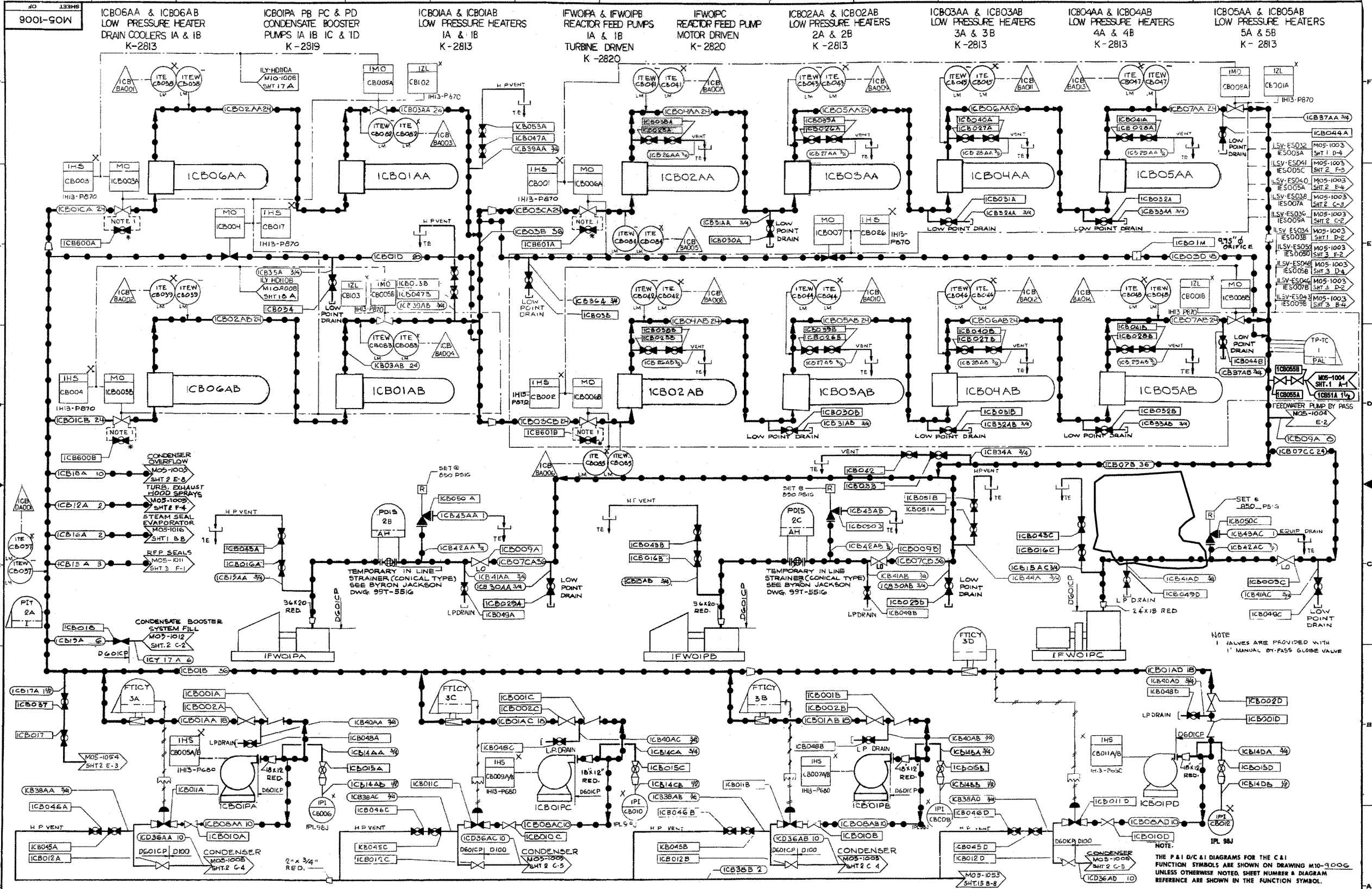
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY PAID'S-
REACTOR FEED WATER
SHEET 14 OF 111



NOTE:
 INDICATES CONDENSER CONNECTION. SEE WESTINGHOUSE DWG 737J012

NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9005 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.



NOTE
1. VALVES ARE PROVIDED WITH
1" MANUAL BY-PASS GLOBE VALVE

NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1000G
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

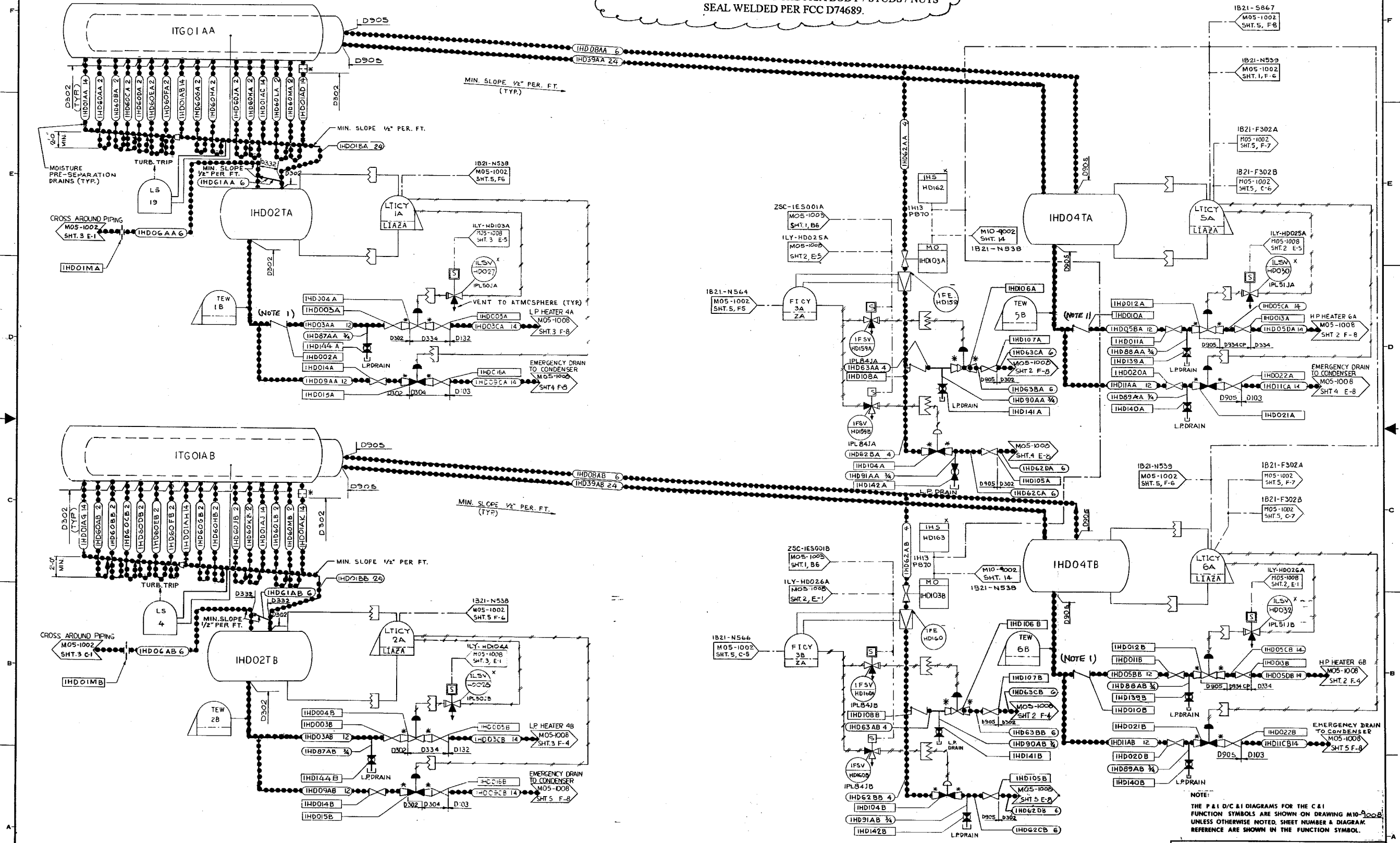
ITGO1AA & TGO1AB
MOISTURE SEPARATOR
REHEATERS 1A & 1B
K-2804

IHD02TA & IHD02TB
MOISTURE SEPARATOR
DRAIN TANK 1A & 1B
K-2839

IHD04TA & IHD04TB
REHEATER DRAIN TANKS 1A & 1B
K-2839

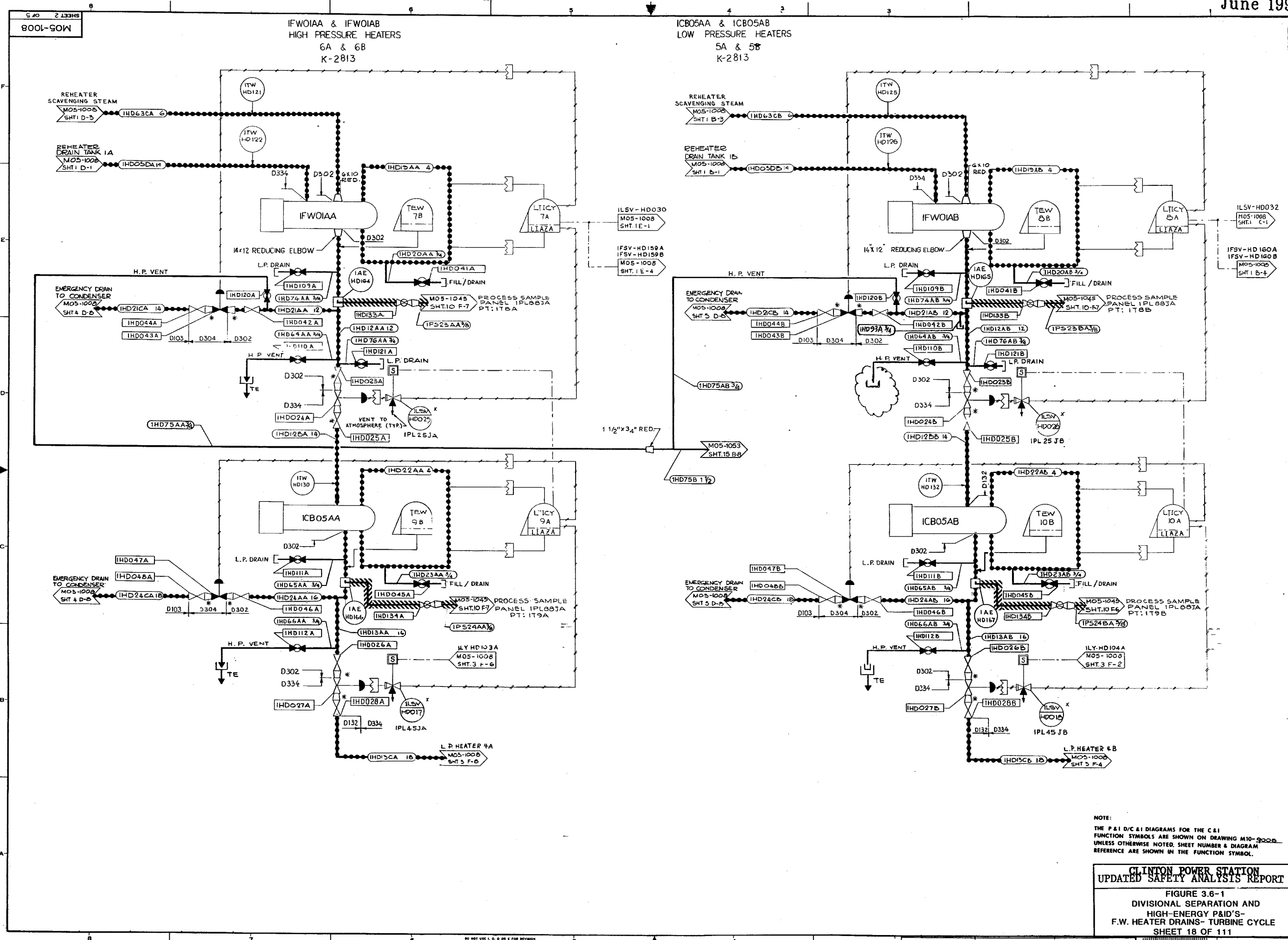
REVISION 8
FEB. 1999

NOTE 1 : CHECK VALVES IHD002A, IHD010A & IHD010B
INTERNALS HAVE BEEN REMOVED.
NOTE 2: CHECK VALVE IHD002A BODY / STUDS / NUTS
SEAL WELDED PER FCC D74689.



NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-100B
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
F.W. HEATER DRAINS- TURBINE CYCLE
SHEET 17 OF 111

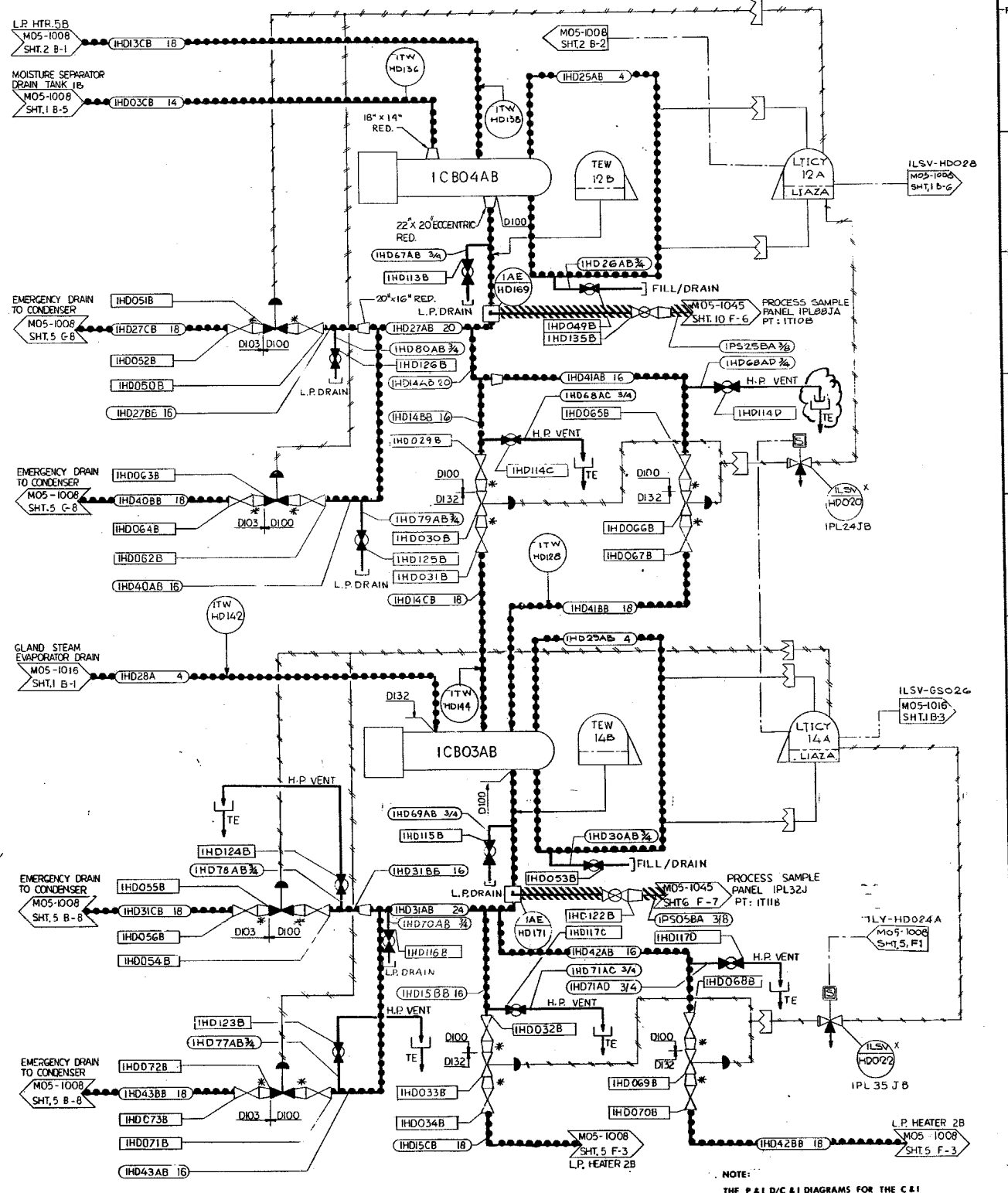
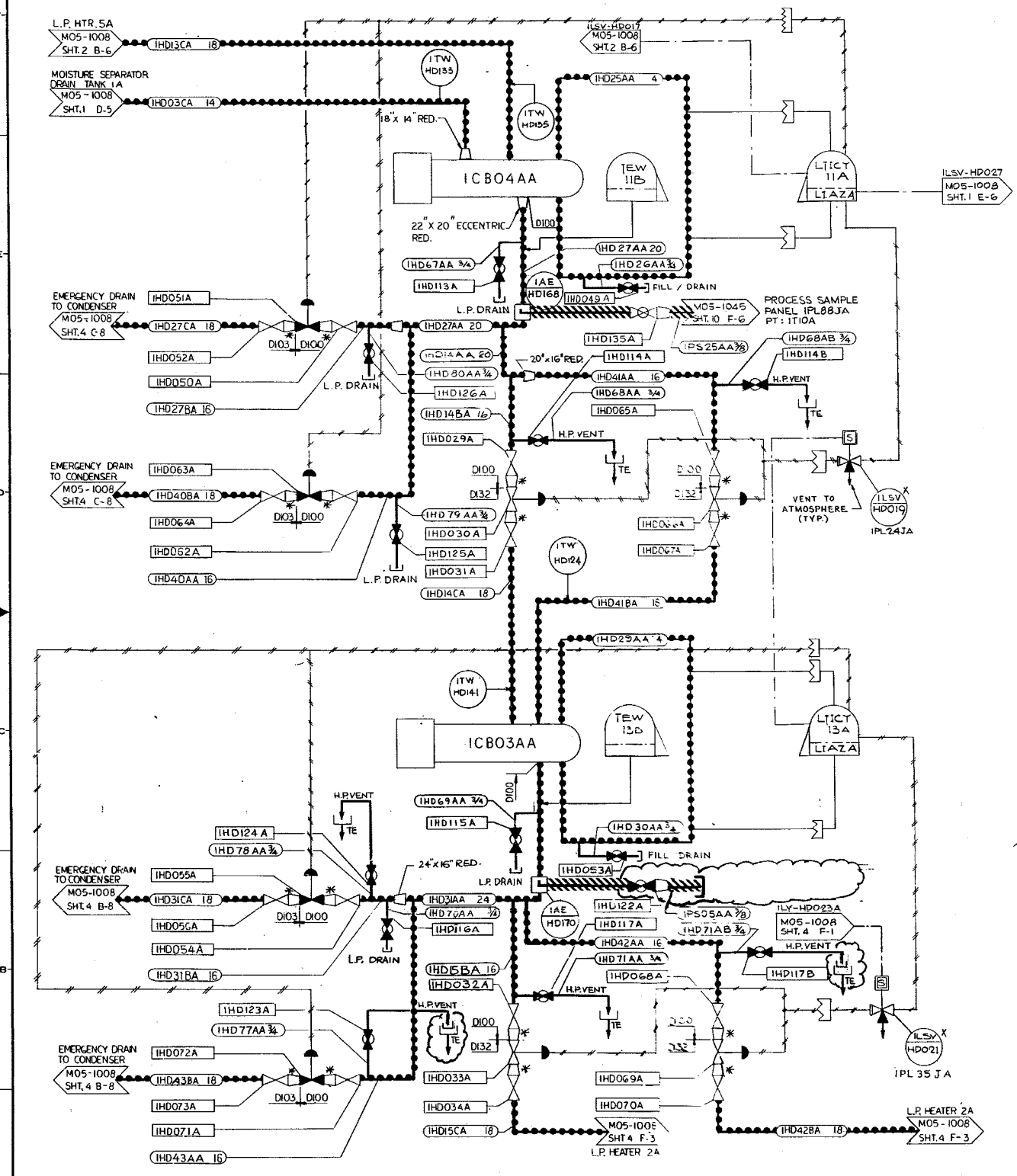


NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-3000
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
F.W. HEATER DRAINS- TURBINE CYCLE
SHEET 18 OF 111

ICB04AA & ICB04AB
LOW PRESSURE HEATERS
4A & 4B
K-2813

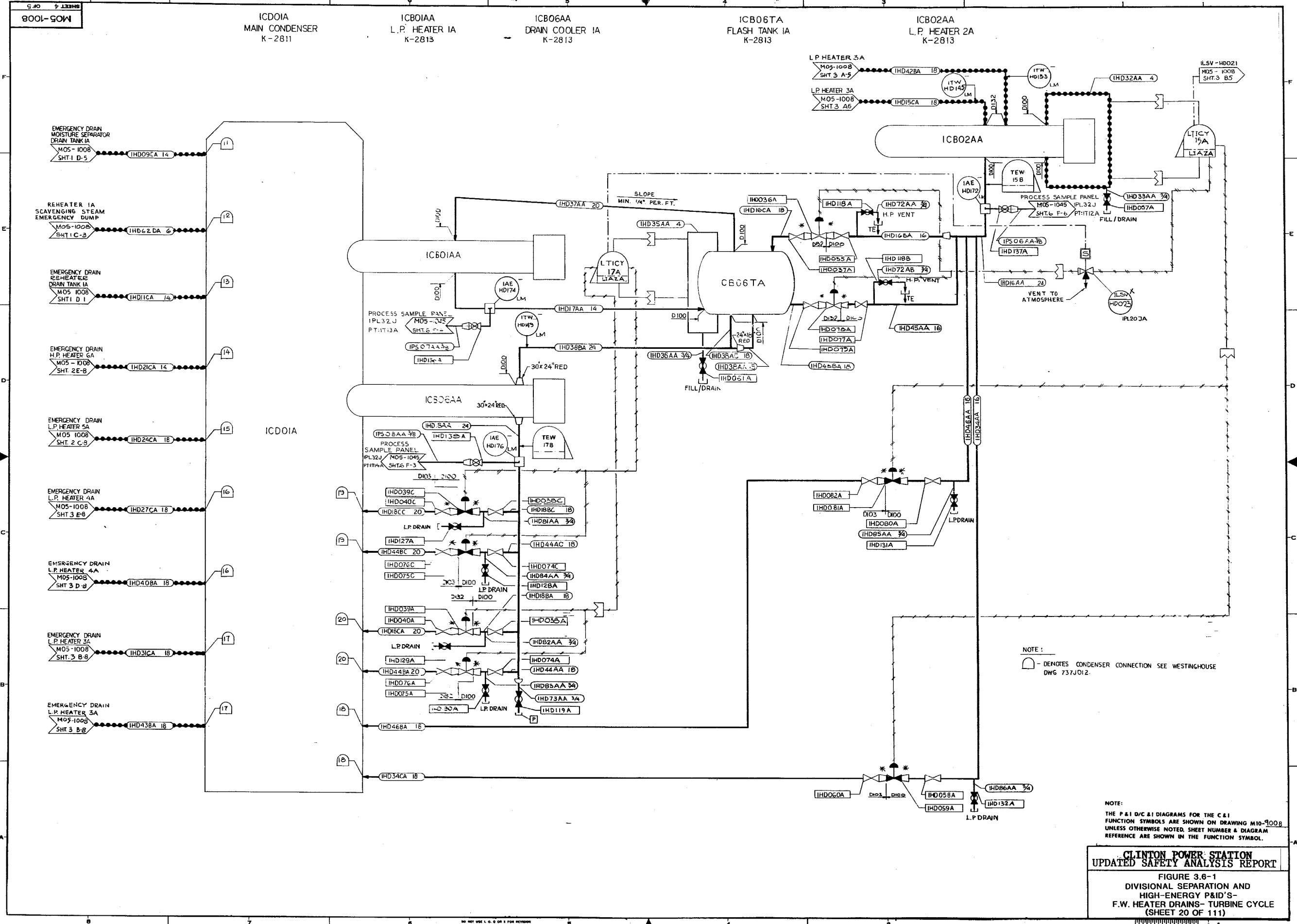
ICB03AA & ICB03AB
LOW PRESSURE HEATERS
3A & 3B
K-2813



NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9000
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

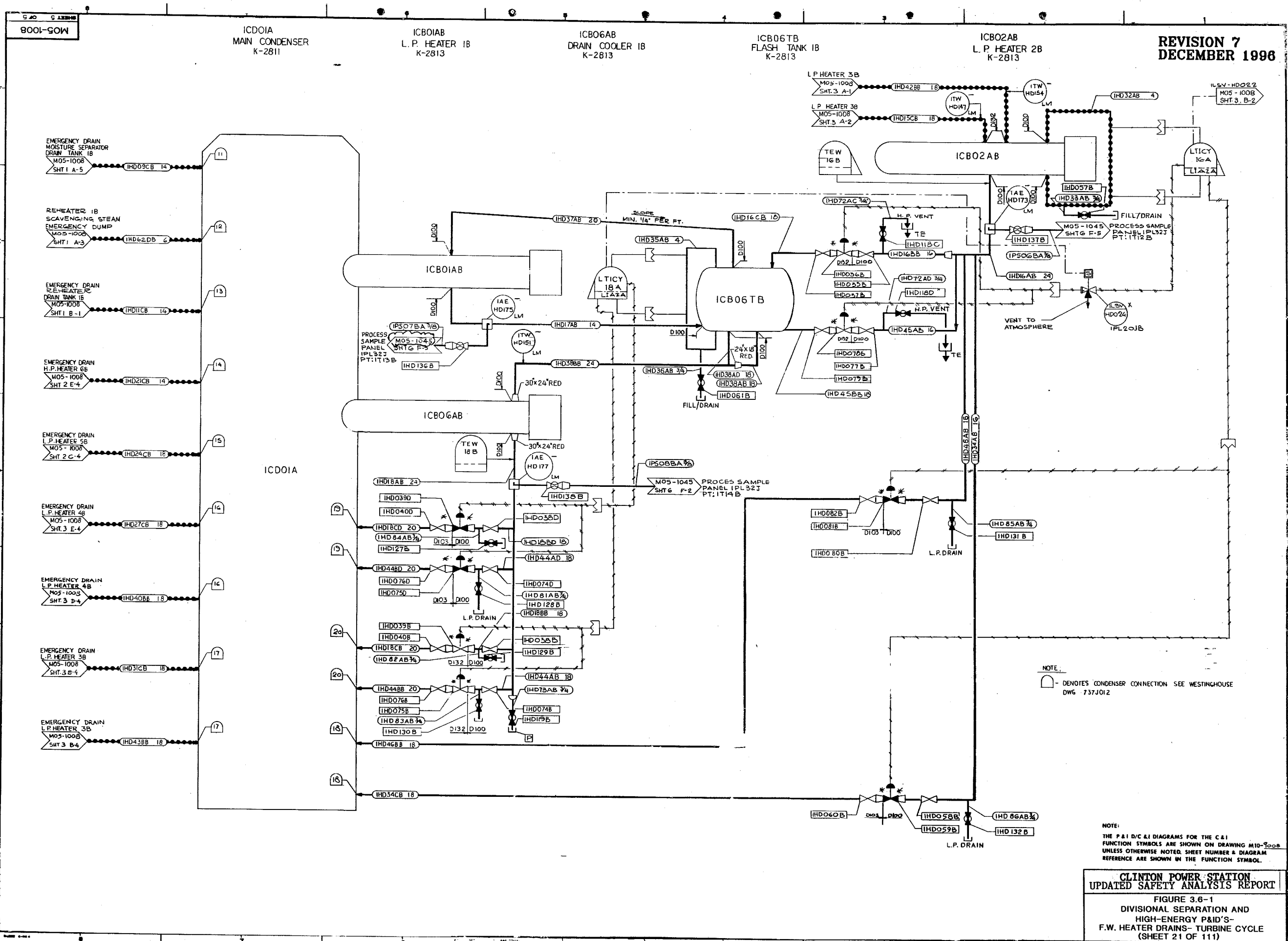
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
F.W. HEATER DRAINS- TURBINE CYCLE
(SHEET 19 OF 111)



NOTE:
 - DENEGIES CONDENSER CONNECTION SEE WESTINGHOUSE DWG 737J012.

NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1008 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 F.W. HEATER DRAINS- TURBINE CYCLE
 (SHEET 20 OF 111)



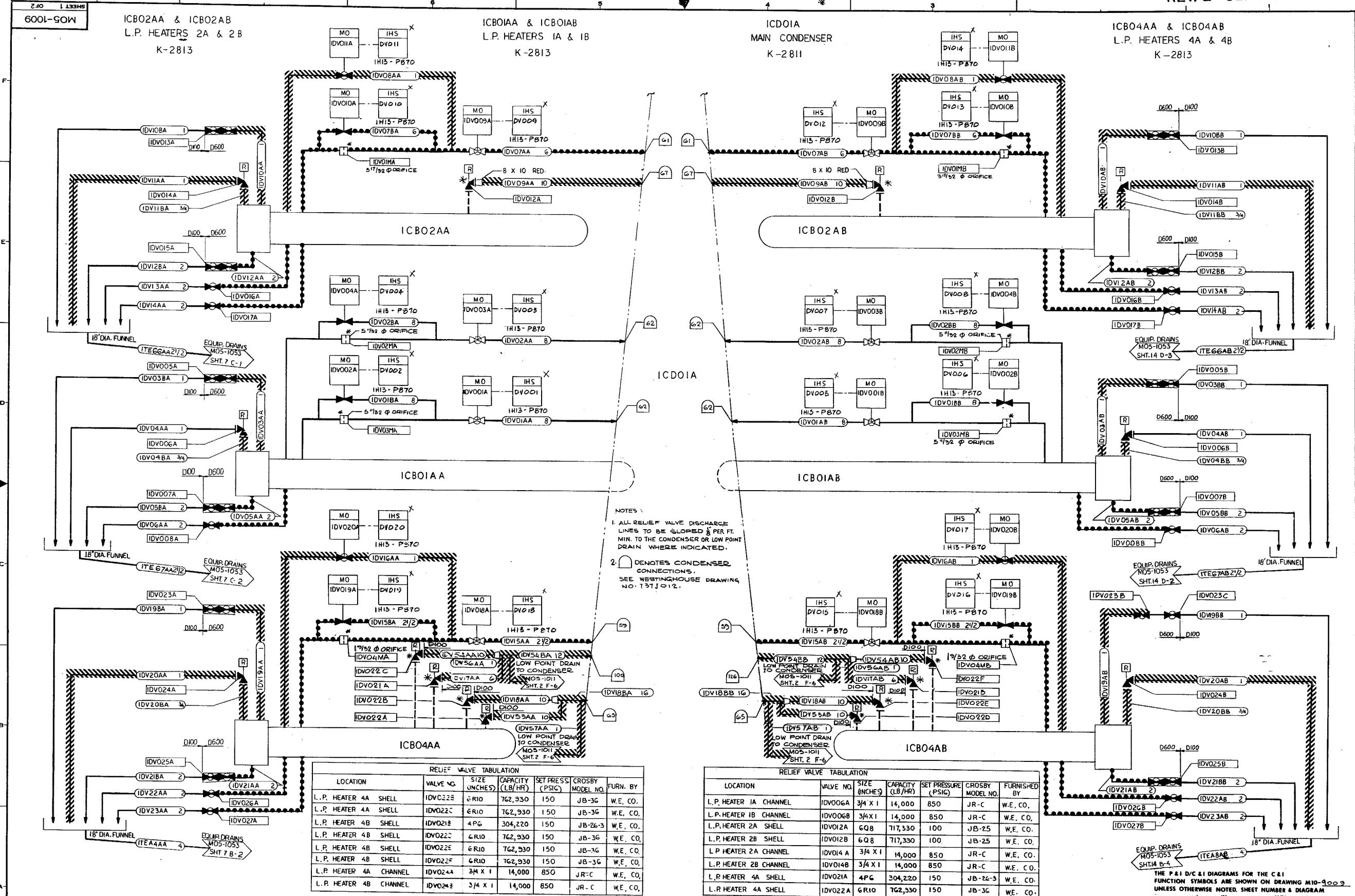
REVISION 7
DECEMBER 1996

NOTE:
 DENOTES CONDENSER CONNECTION SEE WESTINGHOUSE DWG 737J012

NOTE:
 THE P&I D/C & I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1008 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 F.W. HEATER DRAINS- TURBINE CYCLE
 (SHEET 21 OF 111)

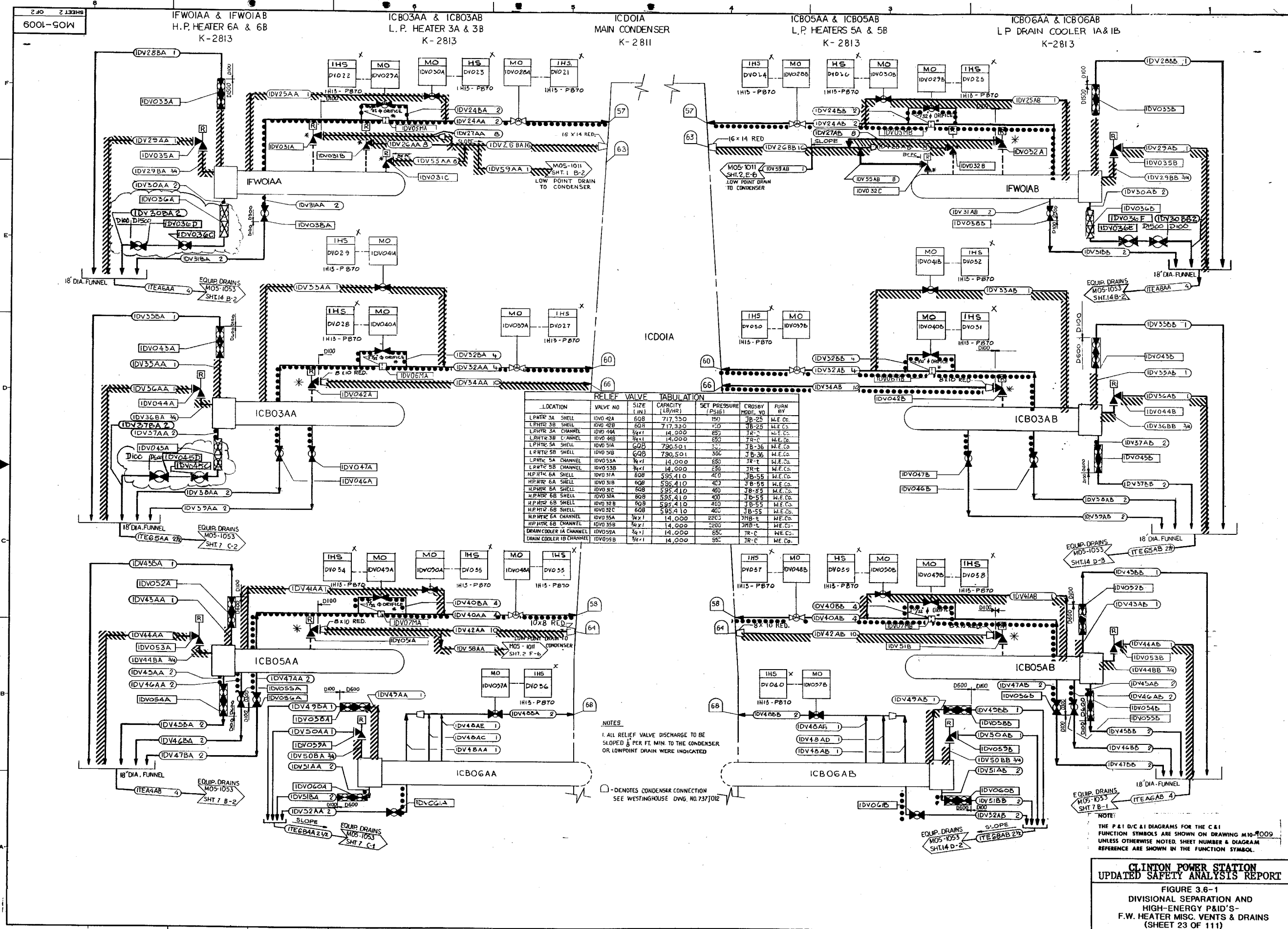


NOTES:
 1. ALL RELIEF VALVE DISCHARGE LINES TO BE SLOPED 1/8" PER FT. MIN. TO THE CONDENSER OR LOW POINT DRAIN WHERE INDICATED.
 2. DENOTES CONDENSED CONNECTIONS. SEE WESTINGHOUSE DRAWING NO. 1371012.

RELIEF VALVE TABULATION						
LOCATION	VALVE NO.	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESS. (PSIG)	CROSBY MODEL NO.	FURN. BY
L.P. HEATER 4A SHELL	IDV022E	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4A SHELL	IDV022C	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	IDV021E	4PG	304,220	150	JB-26-3	W.E. CO.
L.P. HEATER 4B SHELL	IDV022C	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	IDV022E	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	IDV022F	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4A CHANNEL	IDV024A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 4B CHANNEL	IDV024E	3/4 X 1	14,000	850	JR-C	W.E. CO.

RELIEF VALVE TABULATION						
LOCATION	VALVE NO.	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESS. (PSIG)	CROSBY MODEL NO.	FURNISHED BY
L.P. HEATER 1A CHANNEL	IDV006A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 1B CHANNEL	IDV006B	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 2A SHELL	IDV012A	6Q8	717,330	100	JB-25	W.E. CO.
L.P. HEATER 2B SHELL	IDV012B	6Q8	717,330	100	JB-25	W.E. CO.
L.P. HEATER 2A CHANNEL	IDV014A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 2B CHANNEL	IDV014B	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 4A SHELL	IDV021A	4PG	304,220	150	JB-26-3	W.E. CO.
L.P. HEATER 4A SHELL	IDV022A	6R10	762,930	150	JB-3G	W.E. CO.

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S -
 F.W. HEATER MISC. VENTS & DRAINS
 (SHEET 22 OF 111)



RELIEF VALVE TABULATION

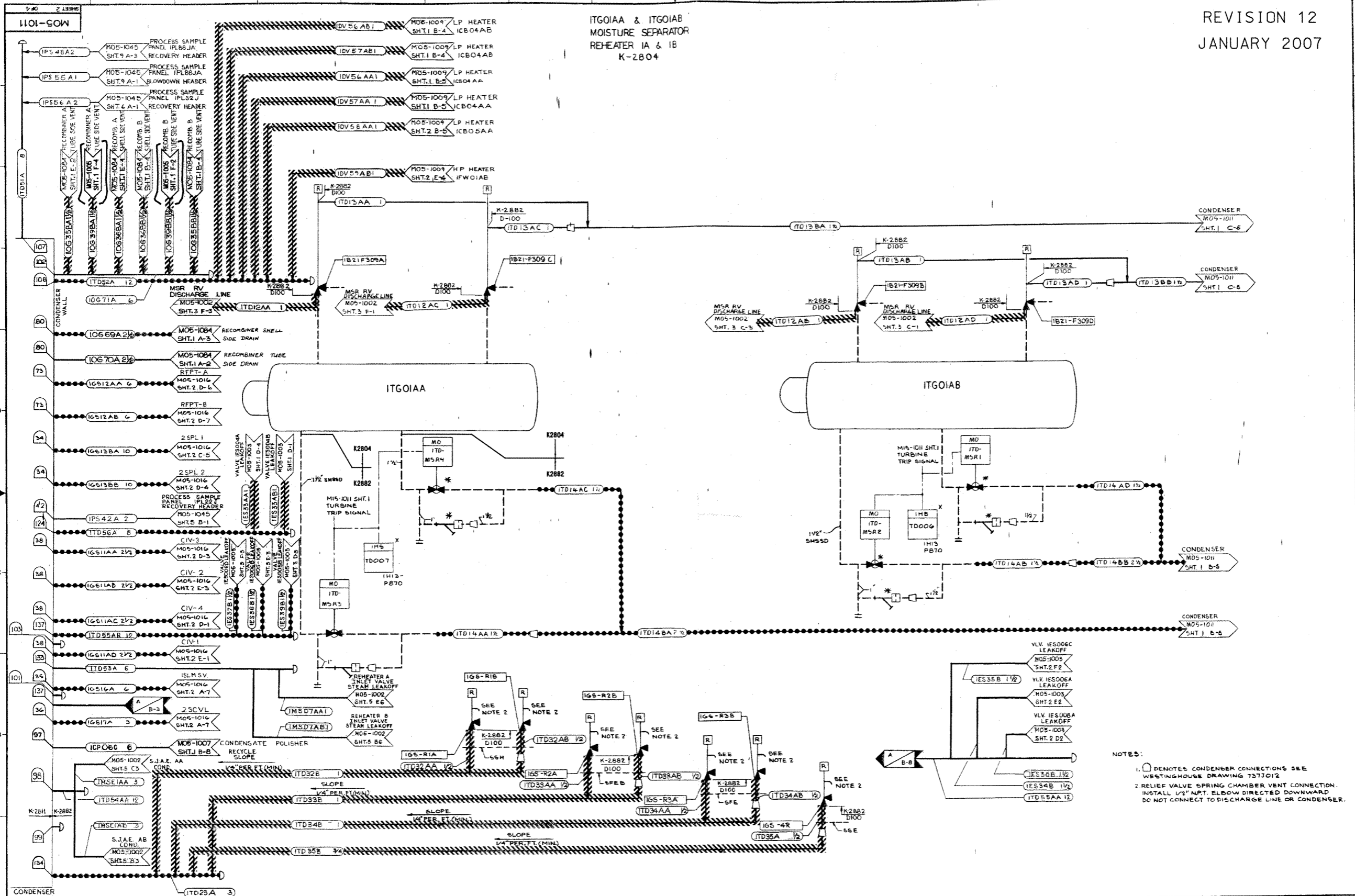
LOCATION	VALVE NO	SIZE (IN)	CAPACITY (LB/HR)	SET PRESSURE (PSIG)	CROSSBY MODES	FURN BY
LPHTC 3A SHELL	IDV042A	608	717,330	150	JB-25	W.E. Co.
LPHTC 3B SHELL	IDV042B	608	717,330	150	JB-25	W.E. Co.
LPHTC 3A CHANNEL	IDV044A	3/4x1	14,000	85	TR-C	W.E. Co.
LPHTC 3B CHANNEL	IDV044B	3/4x1	14,000	85	TR-C	W.E. Co.
LPHTC 5A SHELL	IDV051A	608	790,501	225	JB-36	W.E. Co.
LPHTC 5B SHELL	IDV051B	608	790,501	225	JB-36	W.E. Co.
LPHTC 5A CHANNEL	IDV053A	3/4x1	14,000	85	TR-C	W.E. Co.
LPHTC 5B CHANNEL	IDV053B	3/4x1	14,000	85	TR-C	W.E. Co.
HPHTC 6A SHELL	IDV051A	608	595,410	400	JB-55	W.E. Co.
HPHTC 6B SHELL	IDV051B	608	595,410	400	JB-55	W.E. Co.
HPHTC 6A CHANNEL	IDV053A	3/4x1	14,000	85	TR-C	W.E. Co.
HPHTC 6B CHANNEL	IDV053B	3/4x1	14,000	85	TR-C	W.E. Co.
DRAIN COOLER 1A CHANNEL	IDV059A	3/4x1	14,000	65	TR-C	W.E. Co.
DRAIN COOLER 1B CHANNEL	IDV059B	3/4x1	14,000	65	TR-C	W.E. Co.

NOTES:
1. ALL RELIEF VALVE DISCHARGE TO BE SLOPED 1/8" PER FT. MIN TO THE CONDENSER OR LOW POINT DRAIN WERE INDICATED.
2. - DENOTES CONDENSER CONNECTION SEE WESTINGHOUSE DWG. NO. 7377012

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
F.W. HEATER MISC. VENTS & DRAINS
(SHEET 23 OF 111)

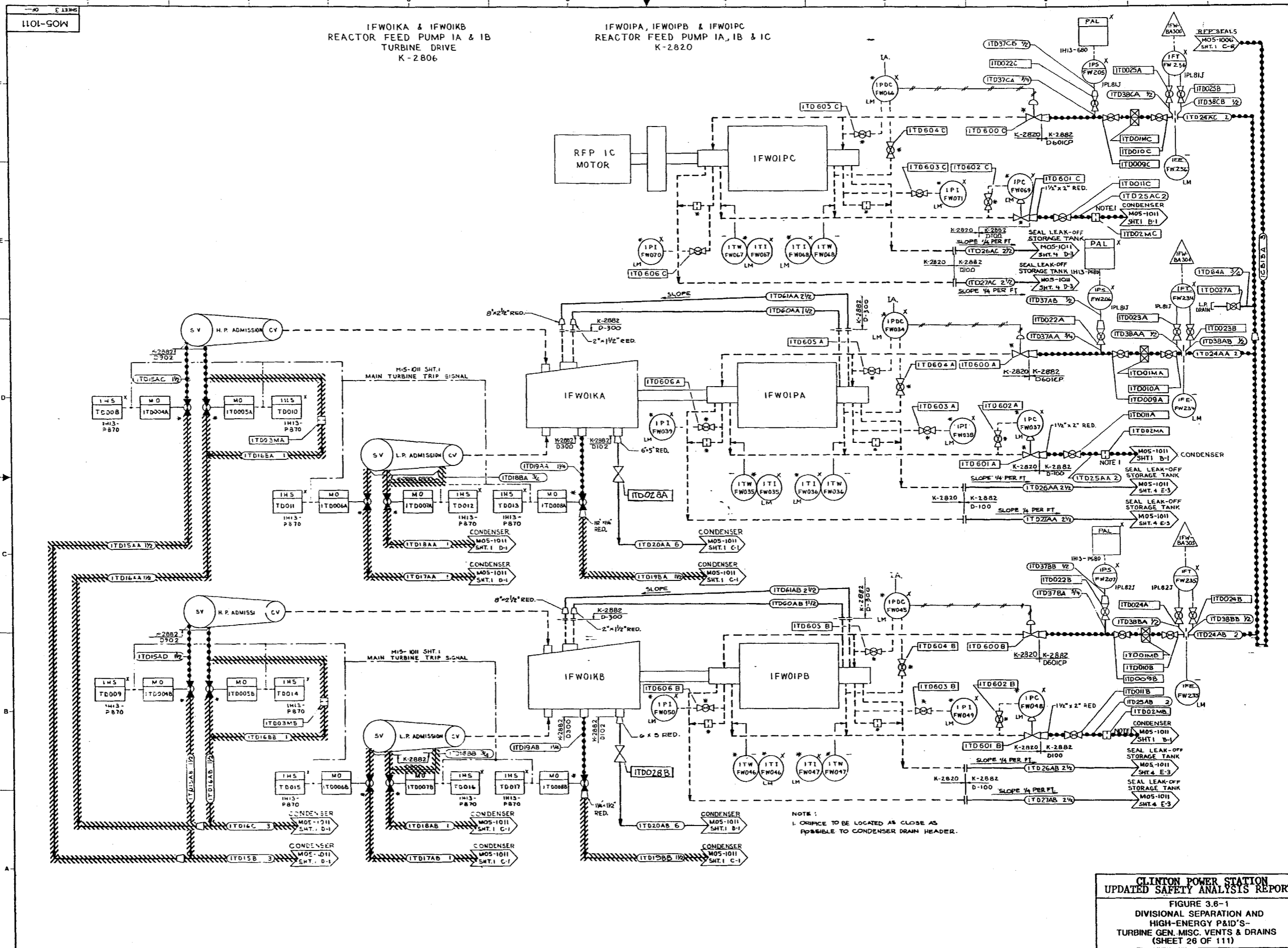
REVISION 12
JANUARY 2007

ITGOIAA & ITGOIAB
MOISTURE SEPARATOR
RE-HEATER IA & IB
K-2804



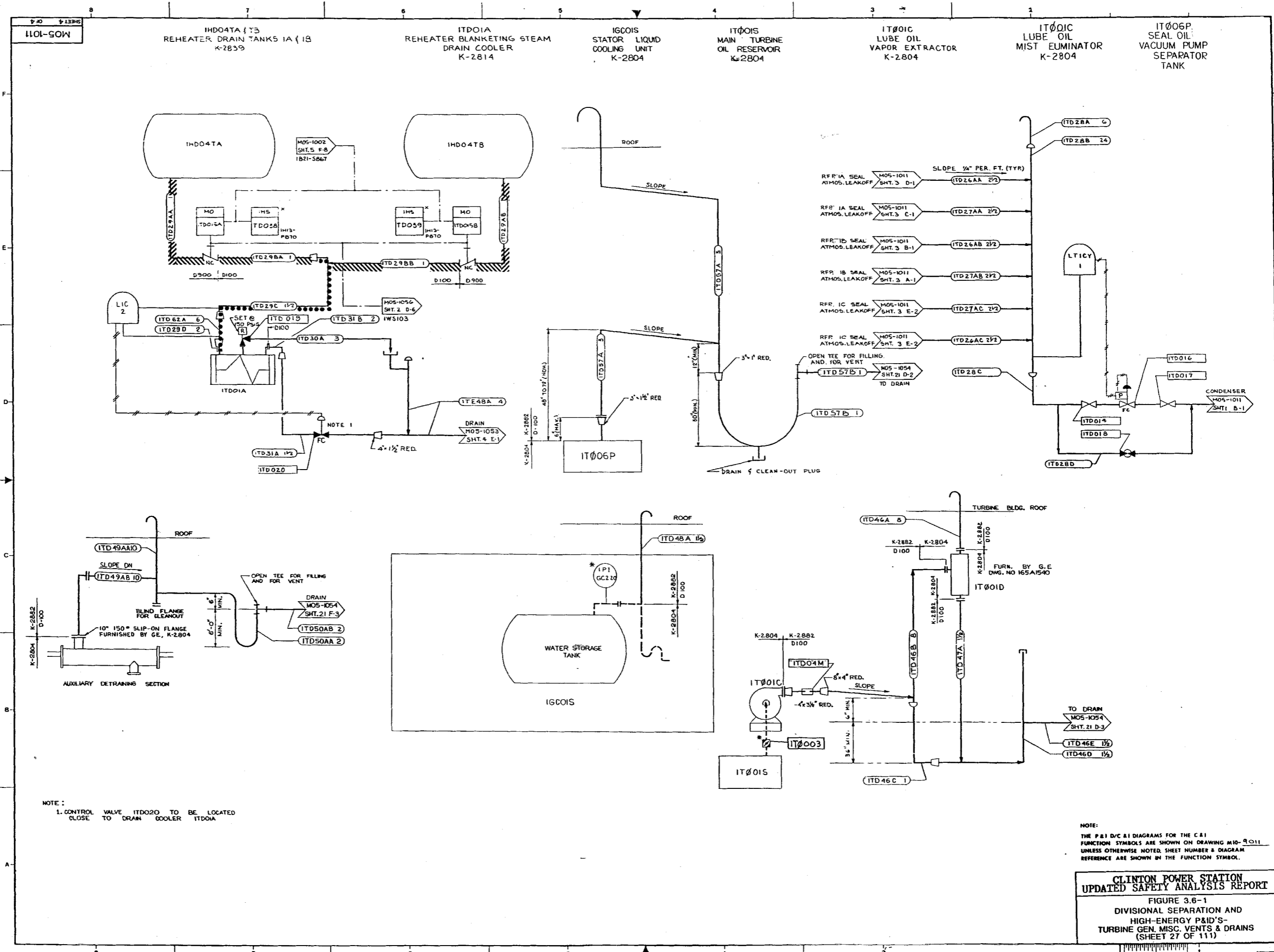
- NOTES:
1. □ DENOTES CONDENSER CONNECTIONS SEE WESTINGHOUSE DRAWING 737012
 2. RELIEF VALVE SPRING CHAMBER VENT CONNECTION. INSTALL 1/2" NPT. ELBOW DIRECTED DOWNWARD. DO NOT CONNECT TO DISCHARGE LINE OR CONDENSER.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
TURBINE GEN. MISC. VENTS & DRAINS
(SHEET 25 OF 111)



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 TURBINE GEN. MISC. VENTS & DRAINS
 (SHEET 26 OF 111)

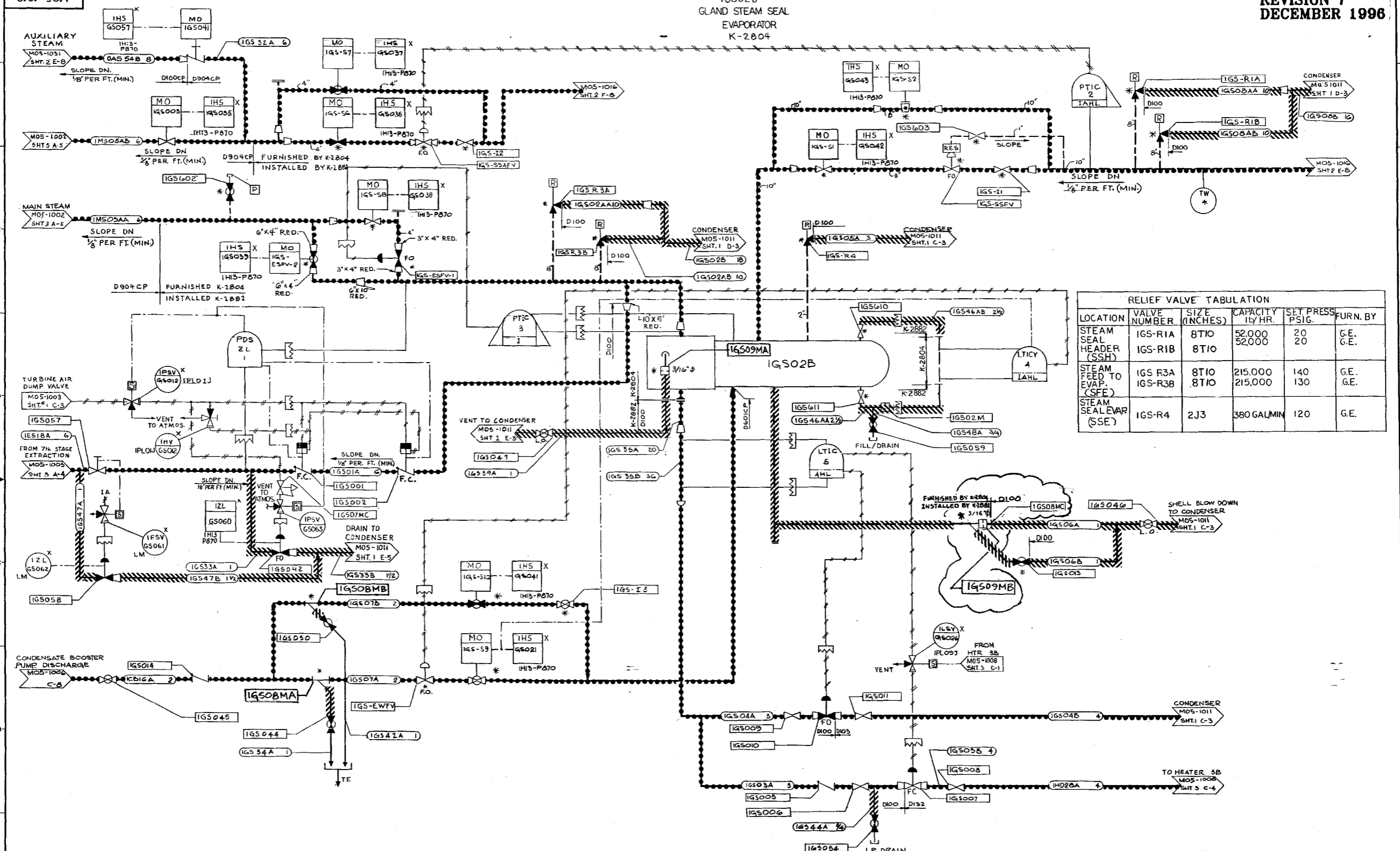


NOTE:
 1. CONTROL VALVE ITD020 TO BE LOCATED
 CLOSE TO DRAIN COOLER ITDOA

NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9011
 UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
 REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 TURBINE GEN. MISC. VENTS & DRAINS
 (SHEET 27 OF 111)

IGS02B
GLAND STEAM SEAL
EVAPORATOR
K-2804



RELIEF VALVE TABULATION

LOCATION	VALVE NUMBER	SIZE (INCHES)	CAPACITY (Lb/HR)	SET PRESS. PSIG.	FURN. BY
STEAM SEAL HEADER (SSH)	IGS-R1A	8T10	52,000	20	G.E.
STEAM SEAL HEADER (SSH)	IGS-R1B	8T10	52,000	20	G.E.
STEAM FEED TO EVAP. (SFE)	IGS-R3A	8T10	215,000	140	G.E.
STEAM FEED TO EVAP. (SFE)	IGS-R3B	8T10	215,000	130	G.E.
STEAM SEAL EVAP. (SSE)	IGS-R4	2J3	380 GAL/MIN	120	G.E.

* INDICATES COMPONENT FURNISHED BY K-2804
REFERENCE DWG. 842E420 REV. 4

NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9016
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

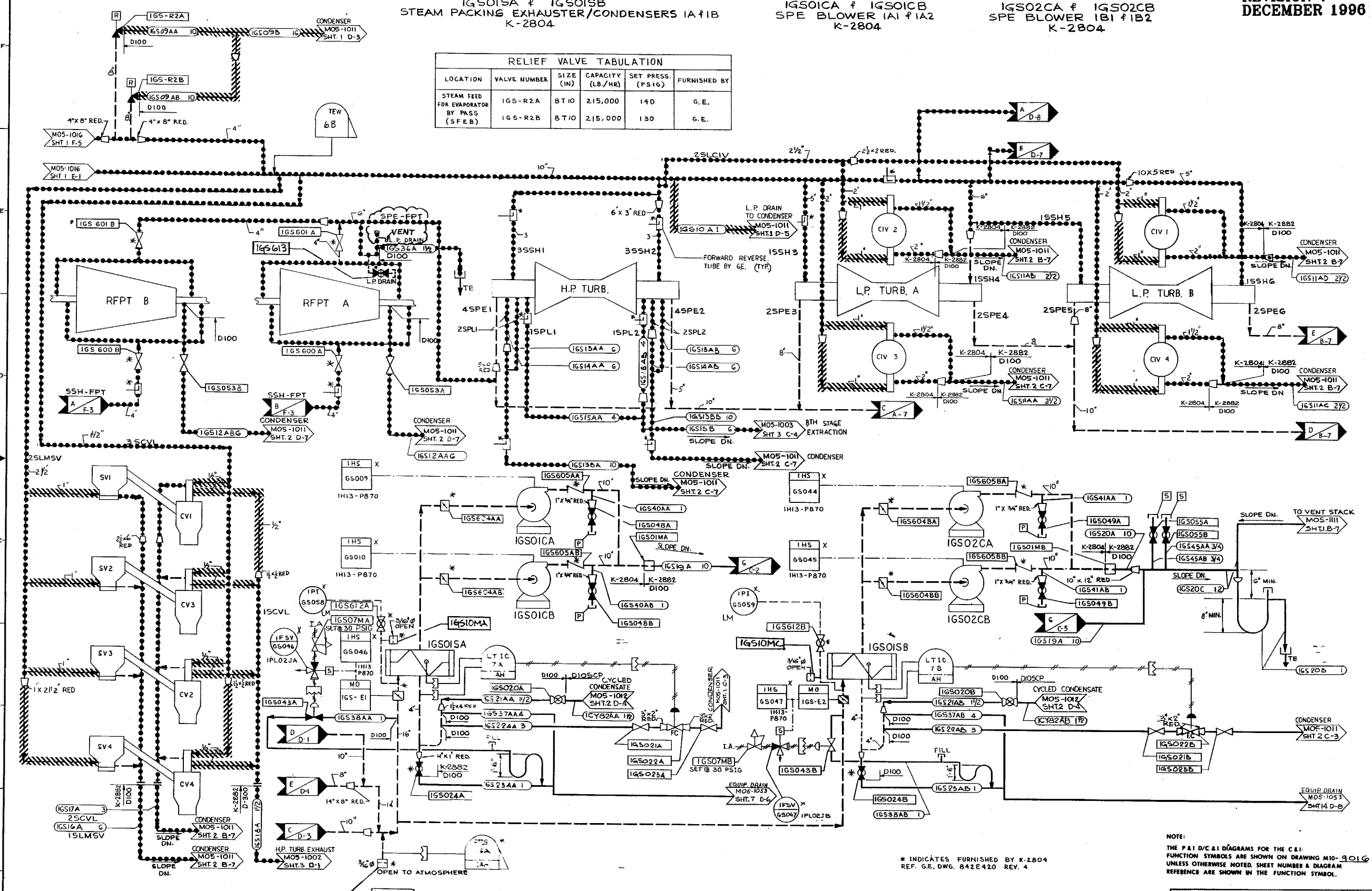
IGSOISA & IGSOISB
STEAM PACKING EXHAUSTER/CONDENSERS IA & IB
K-2804

IGSOICA & IGSOICB
SPE BLOWER IA & IB
K-2804

IGSO2CA & IGSO2CB
SPE BLOWER IB1 & IB2
K-2804

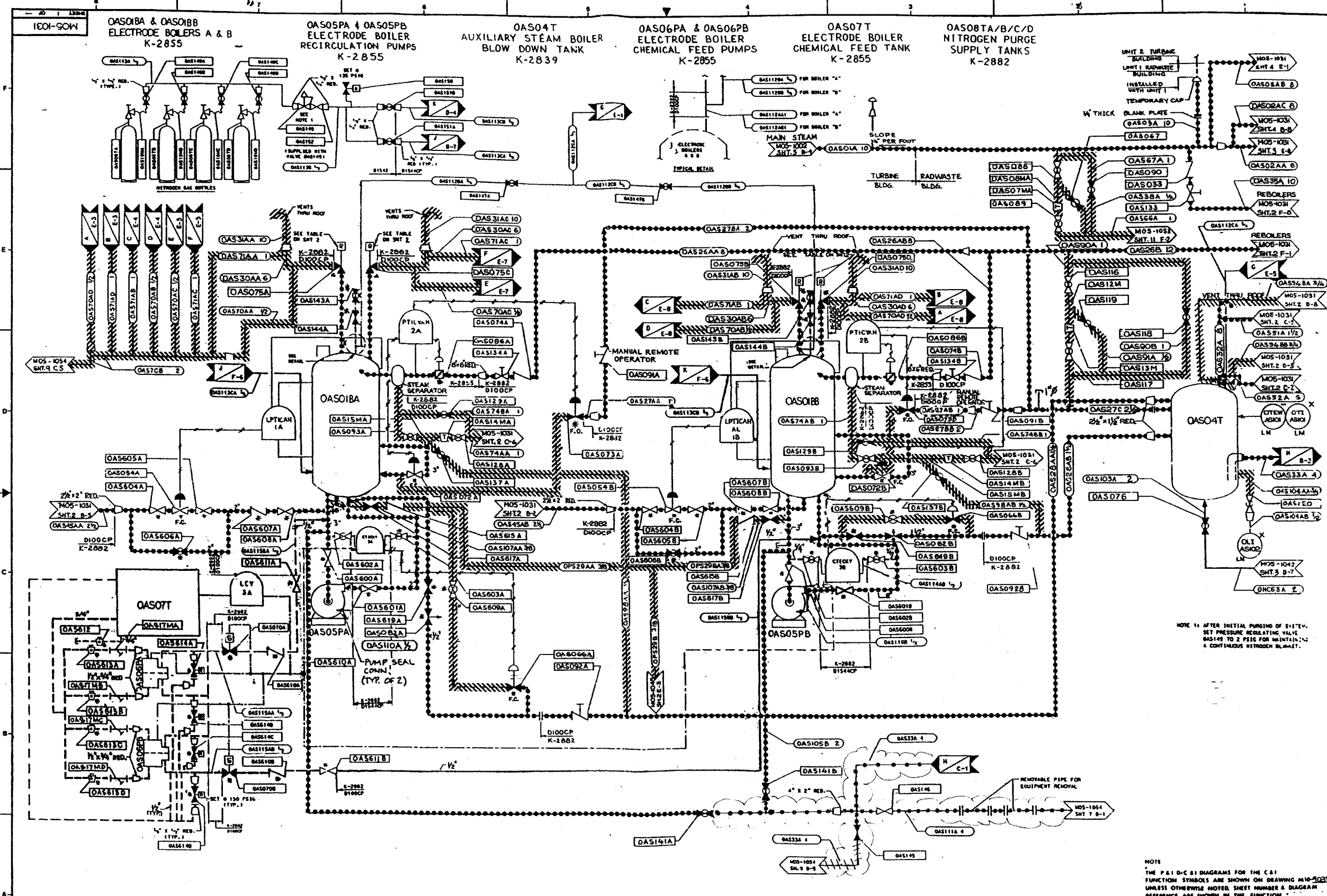
REVISION 7
DECEMBER 1996

RELIEF VALVE TABULATION					
LOCATION	VALVE NUMBER	SIZE (IN)	CAPACITY (LB./HR)	SET PRESS. (PSIG)	FURNISHED BY
STEAM FEED FOR EVAPORATOR	IGS-R2A	8 T/10	215,000	140	G. E.
BY PASS (S.F.E.B.)	IGS-R2B	8 T/10	215,000	130	G. E.



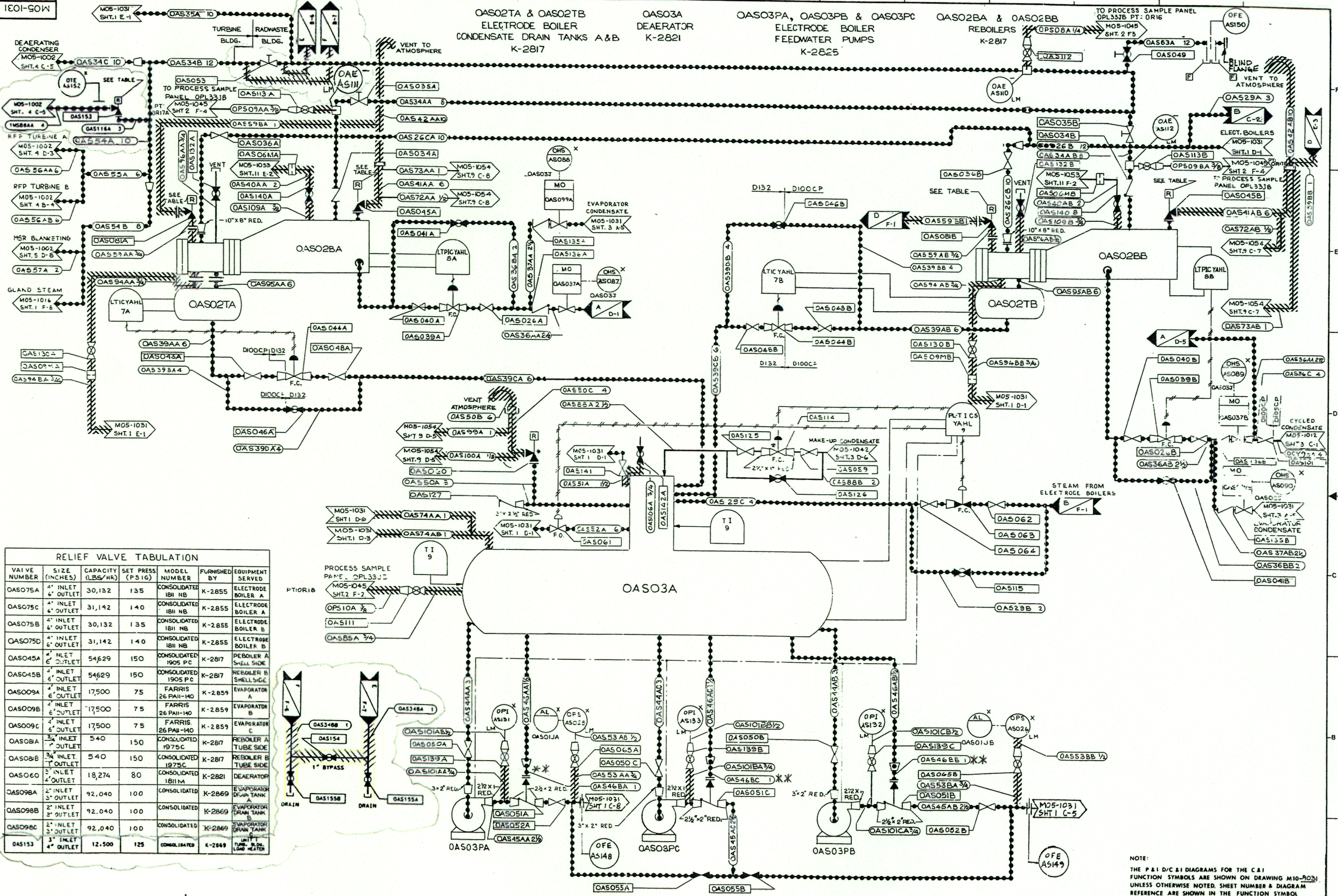
* INDICATES FURNISHED BY K-2804
REF. G.E. DWG. 842E420 REV. 4

NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-901G
UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.



NOTE 1: AFTER INITIAL PURGING OF SYSTEM, SET PRESSURE REGULATING VALVE OAS149 TO 2 PSIG FOR MAINTAINING A CONTINUOUS THROUGH FLOW.

NOTE
THE P&ID'S DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING 410-2021 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION.



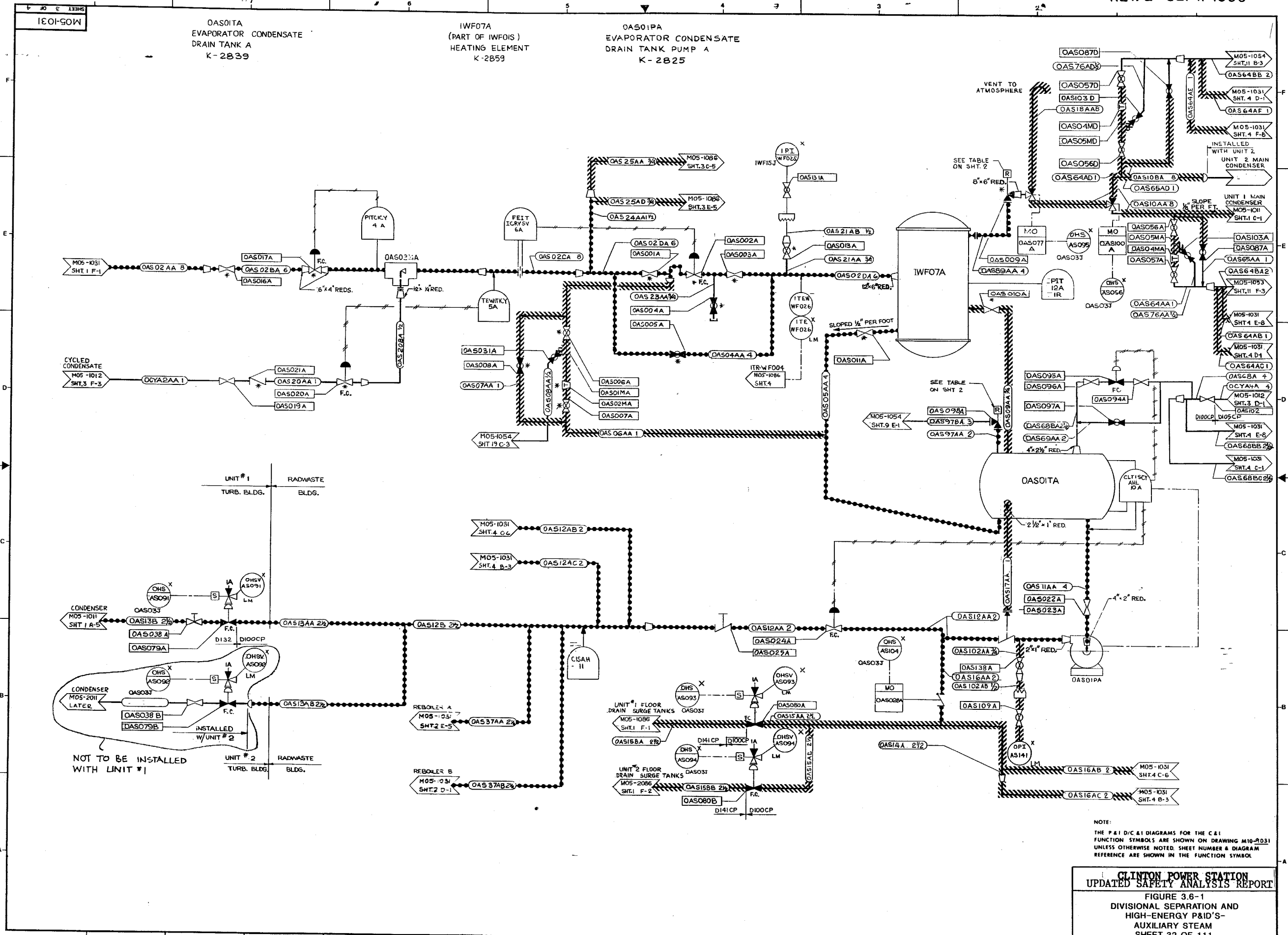
RELIEF VALVE TABULATION

VALVE NUMBER	SIZE (INCHES)	CAPACITY (LBS/HR)	SET PRESS. (PSIG)	MODEL NUMBER	FURNISHED BY	EQUIPMENT SERVED
OASO75A	2" INLET 6" OUTLET	30,132	135	CONSOLIDATED 1B11 NB	K-2855	ELECTRODE BOILER A
OASO75C	2" INLET 6" OUTLET	31,142	140	CONSOLIDATED 1B11 NB	K-2855	ELECTRODE BOILER A
OASO75B	2" INLET 6" OUTLET	30,132	135	CONSOLIDATED 1B11 NB	K-2855	ELECTRODE BOILER B
OASO75D	2" INLET 6" OUTLET	31,142	140	CONSOLIDATED 1B11 NB	K-2855	ELECTRODE BOILER B
OASO45A	2" INLET 6" OUTLET	54,629	150	CONSOLIDATED 1905 PC	K-2817	REBOILER A SHELL SIDE
OASO45B	2" INLET 6" OUTLET	54,629	150	CONSOLIDATED 1905 PC	K-2817	REBOILER B SHELL SIDE
OASO09A	2" INLET 6" OUTLET	17,500	75	FARRIS 26 PA11-140	K-2859	EVAPORATOR A
OASO09B	2" INLET 6" OUTLET	17,500	75	FARRIS 26 PA11-140	K-2859	EVAPORATOR B
OASO09C	2" INLET 6" OUTLET	17,500	75	FARRIS 26 PA11-140	K-2859	EVAPORATOR C
OASO2BA	3/4" INLET 1" OUTLET	540	150	CONSOLIDATED 1975C	K-2817	REBOILER A TUBE SIDE
OASO2BB	3/4" INLET 1" OUTLET	540	150	CONSOLIDATED 1975C	K-2817	REBOILER B TUBE SIDE
OASO60	2" INLET 2" OUTLET	18,274	80	CONSOLIDATED 1B11 M	K-2821	DEAERATOR
OASO98A	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK A
OASO98B	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK B
OASO98C	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK C
OAS153	3" INLET 4" OUTLET	12,500	125	CONSOLIDATED	K-2869	TURBINE BLDG. CONDENSER

PROCESS SAMPLE
PANEL OPL33J
MOS-1045
SHT.2 F-4
OPS10A 3/4
OAS111
OAS85A 3/4

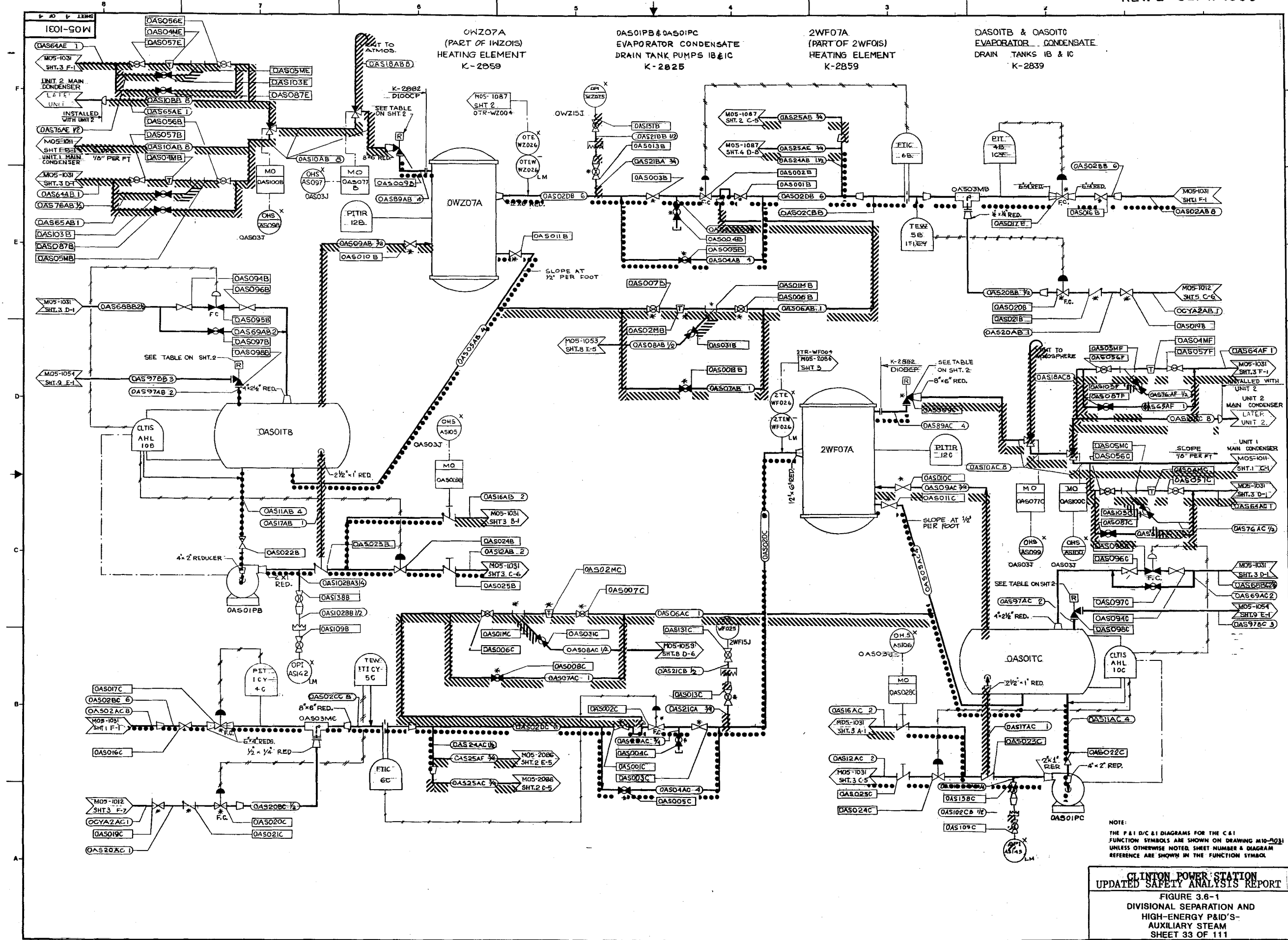
NOTE:
THE P&ID/C&I DIAGRAMS FOR THE C&I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-2031.
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL

** Note: If optional ARC valve is used in lieu
of LARC for OAS051A/B/C, 1" line
(OAS46BA/B/C) is not required.



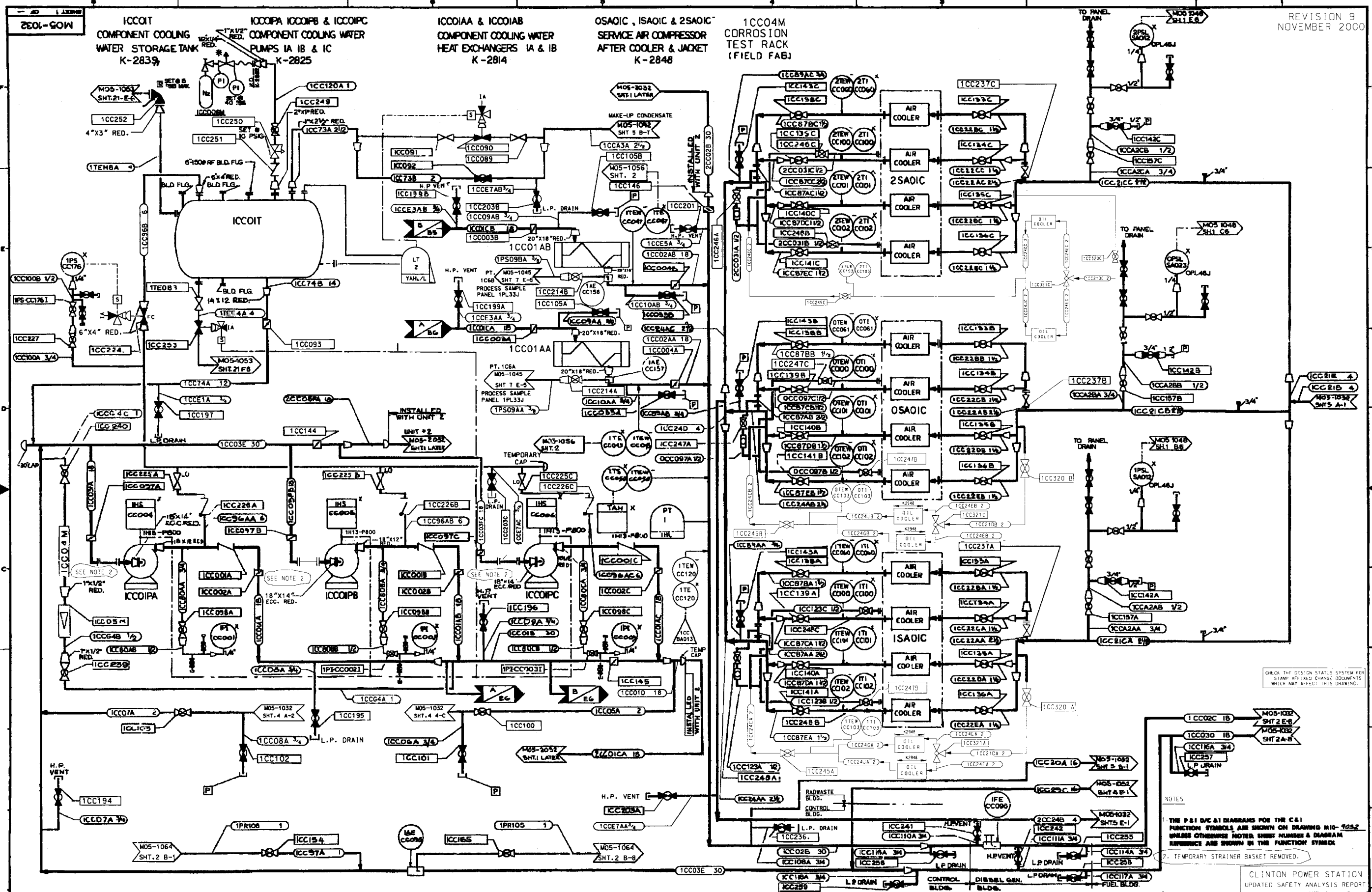
NOTE:
 THE P&ID'S ARE DIAGRAMS FOR THE C&I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1031
 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM
 REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 AUXILIARY STEAM
 SHEET 32 OF 111



NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1031
 UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
 REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 AUXILIARY STEAM
 SHEET 33 OF 111

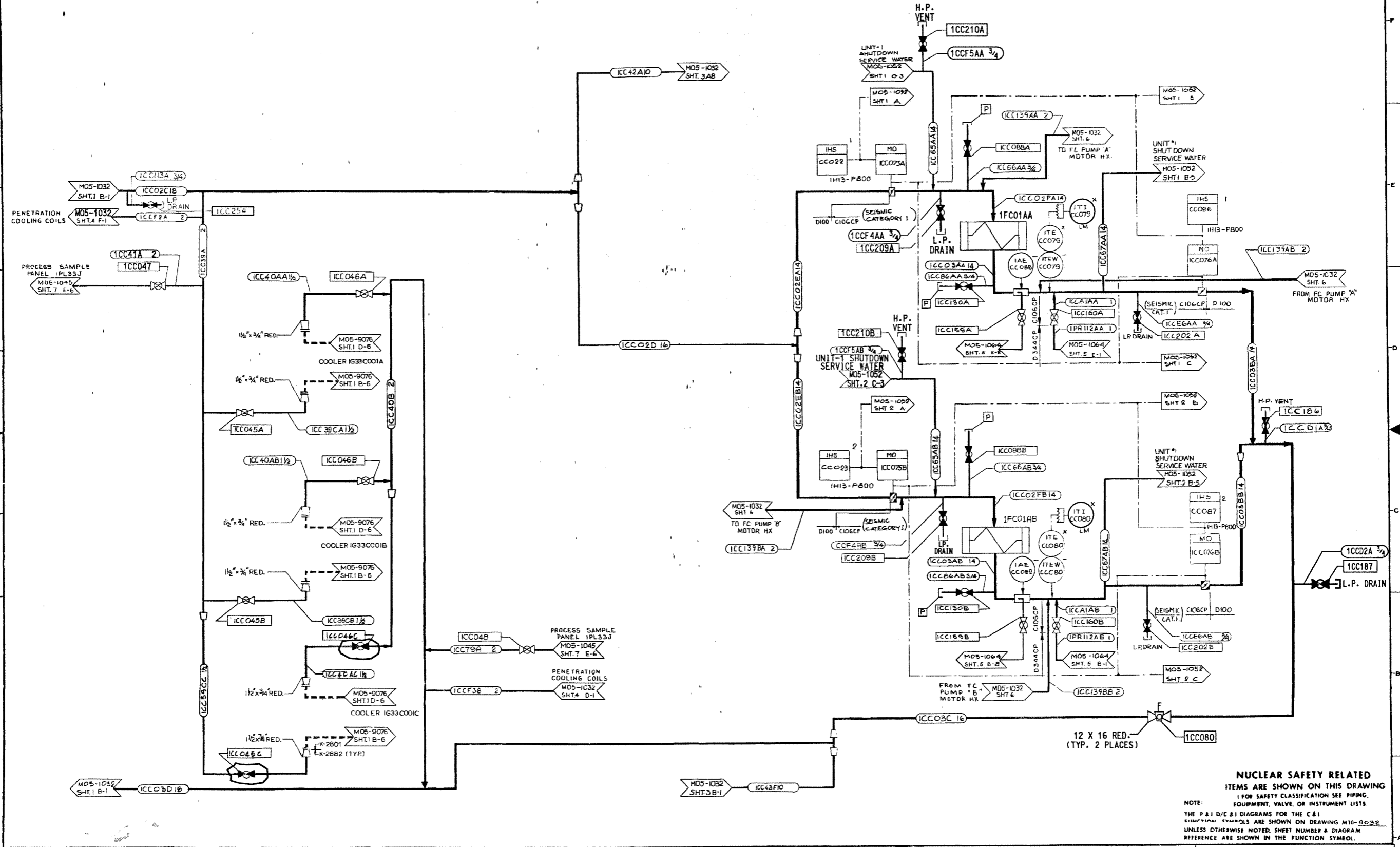


CHECK THE DESIGN STATUS SYSTEM FOR STAMP AND FILED CHANGE DOCUMENTS WHICH MAY AFFECT THIS DRAWING.

- NOTES
- 1. THE P&ID DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M05-1052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.
 - 2. TEMPORARY STRAINER BASKET REMOVED.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

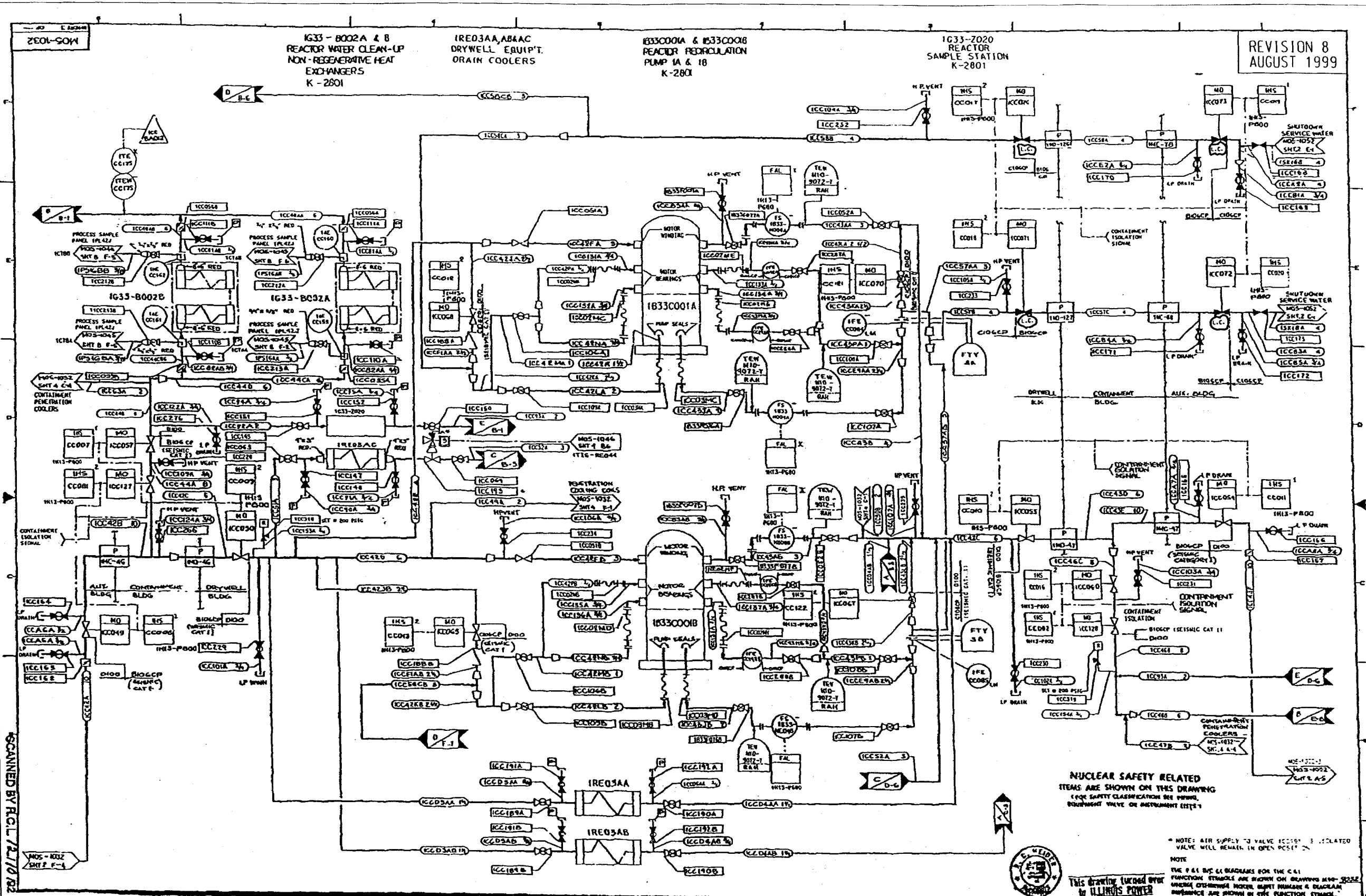
FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY PAID'S COMPONENT COOLING WATER SHEET 34 OF 111



NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
FOR SAFETY CLASSIFICATION SEE PIPING,
EQUIPMENT, VALVE, OR INSTRUMENT LISTS
NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I
EQUIPMENT SYMBOLS ARE SHOWN ON DRAWING M10-1032
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
COMPONENT COOLING WATER
SHEET 35 OF 111



REVISION 8
AUGUST 1999

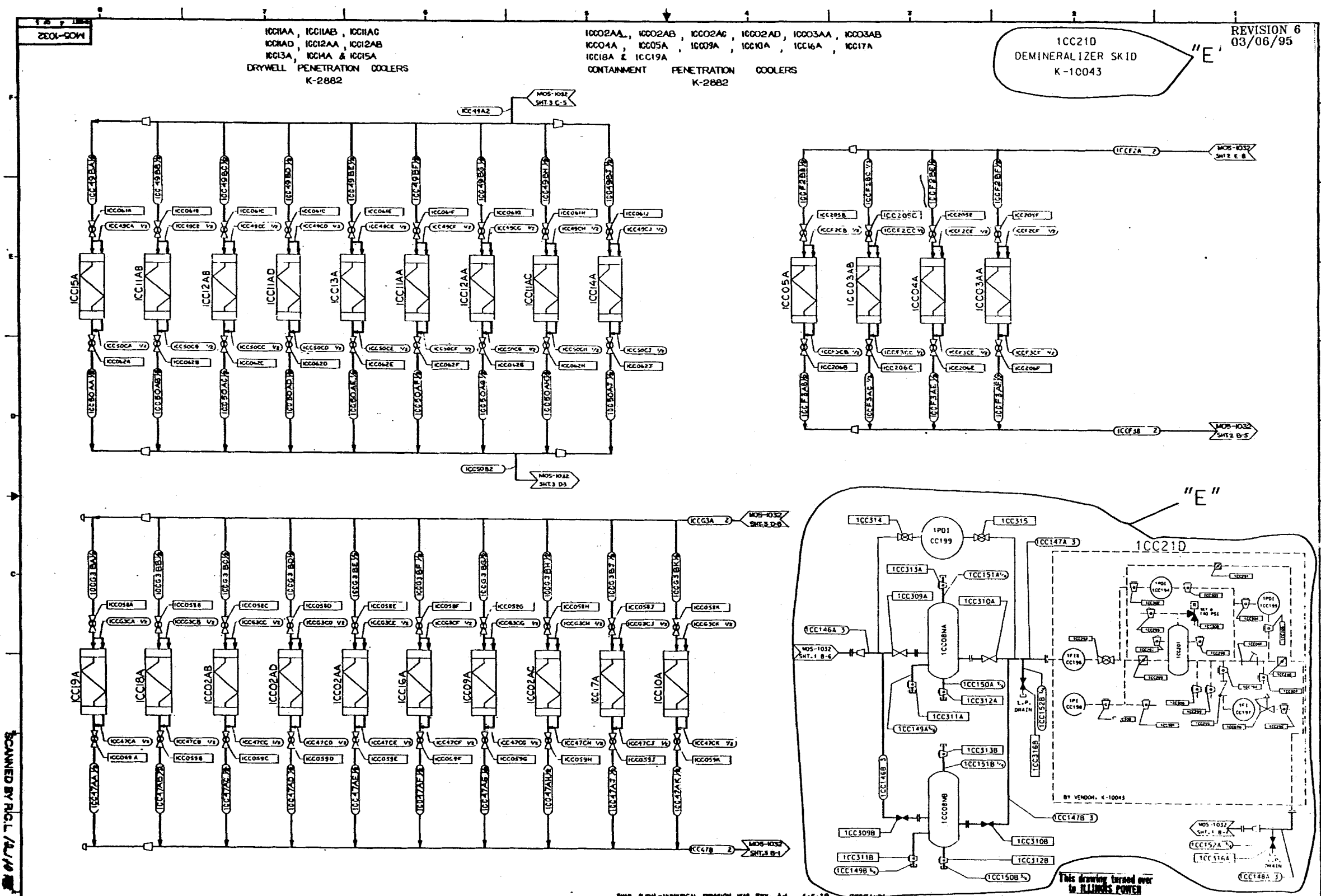
SCANNED BY R.C.L./2/10/02

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(SEE SAFETY CLASSIFICATION SEE DRAWING
EQUIPMENT VALUE OR INSTRUMENT LIST)

NOTE: AIR SUPPLY TO VALVE ICC151 IS ISOLATED
VALVE WILL REMAIN IN OPEN POSITION

NOTE:
THE P&ID BVC & DIAGRAMS FOR THE CASI
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M00-2022
WHERE OTHERWISE NOTED, PART NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY PAID'S-
COMPONENT COOLING WATER
SHEET 36 OF 111

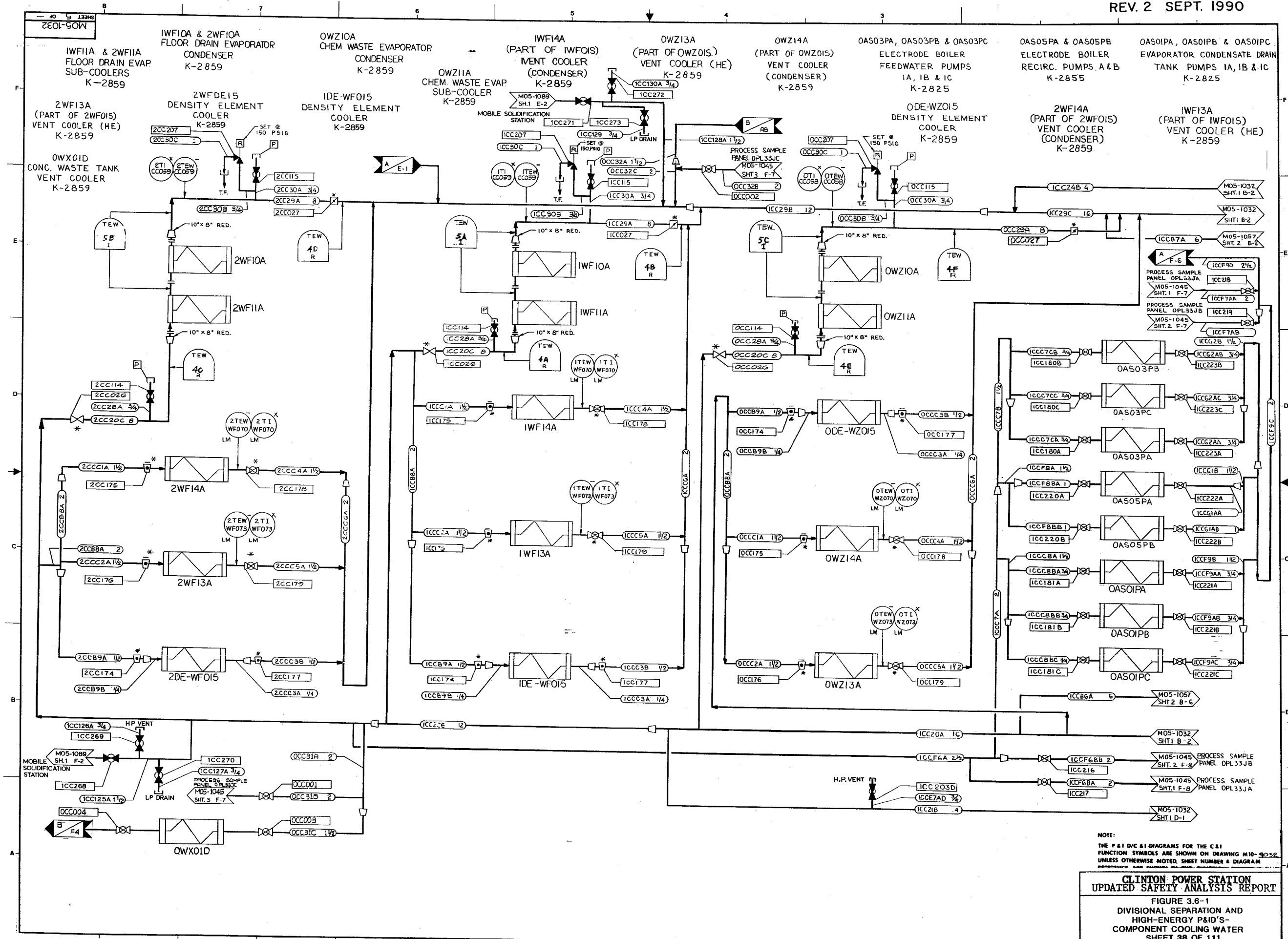


SCANNED BY RCL/AJ/10

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1

DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 COMPONENT COOLING WATER
 SHEET 37 OF 111

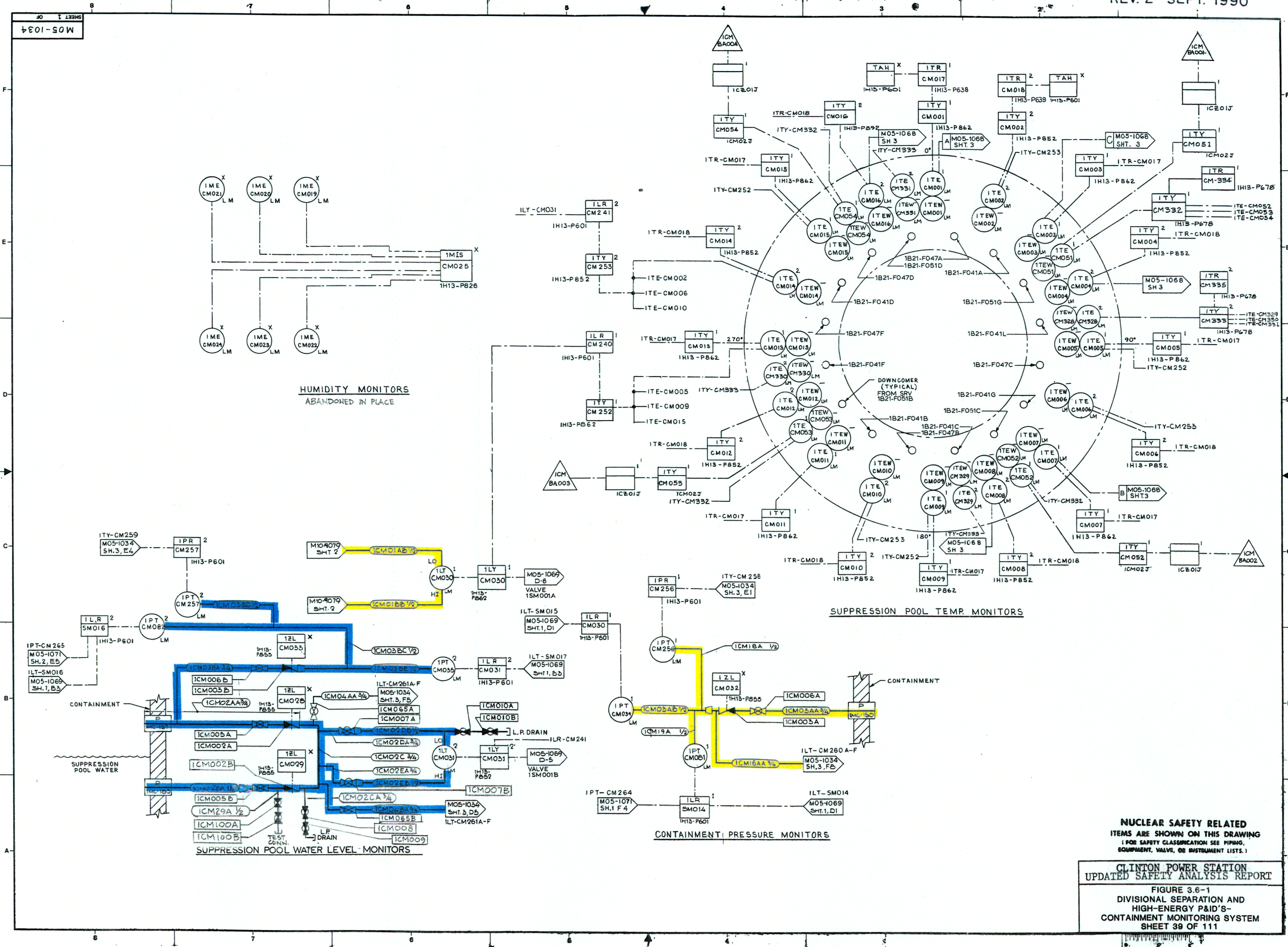


NOTE:
 THE P&ID/C&I DIAGRAMS FOR THE C&I
 FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9032
 UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
 FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 COMPONENT COOLING WATER
 SHEET 38 OF 111

M05-1034

F
E
D
C
B
A



HUMIDITY MONITORS
ABANDONED IN PLACE

SUPPRESSION POOL TEMP. MONITORS

CONTAINMENT PRESSURE MONITORS

SUPPRESSION POOL WATER LEVEL MONITORS

NUCLEAR SAFETY RELATED
 ITEMS ARE SHOWN ON THIS DRAWING
 (FOR SAFETY CLASSIFICATION SEE PIPING,
 EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
 DIVISIONAL SEPARATION AND
 HIGH-ENERGY P&ID'S-
 CONTAINMENT MONITORING SYSTEM
 SHEET 39 OF 111

1H13-P867
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM CONTROL
PANEL
K-2929

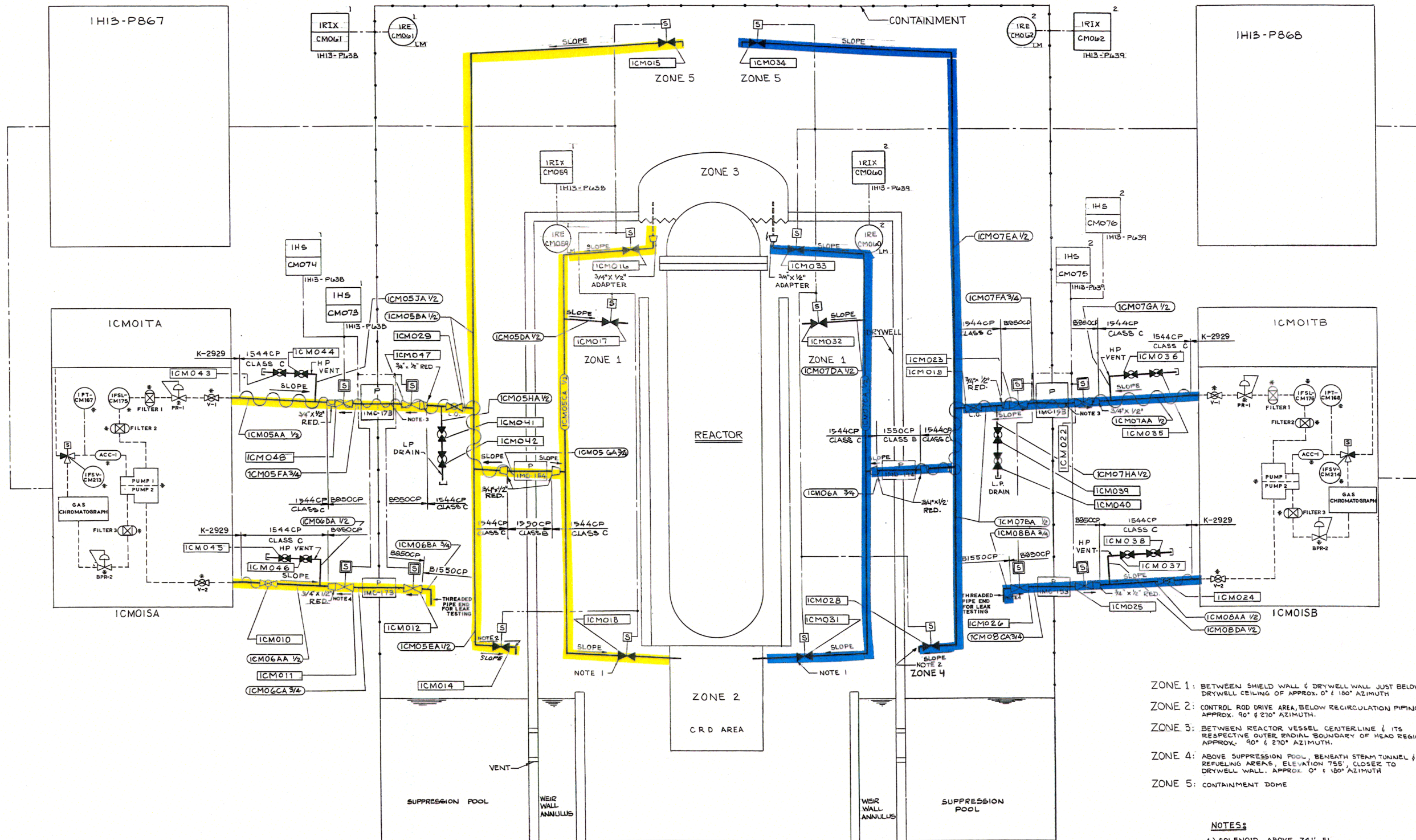
1CM01TA
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM
CALIBRATION GAS SKID
K-2929

1CM01SA
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM
PUMP / ANALYZER SKID
K-2929

1H13-P868
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM CONTROL
PANEL
K-2929

1CM01TB
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM
CALIBRATION GAS SKID
K-2929

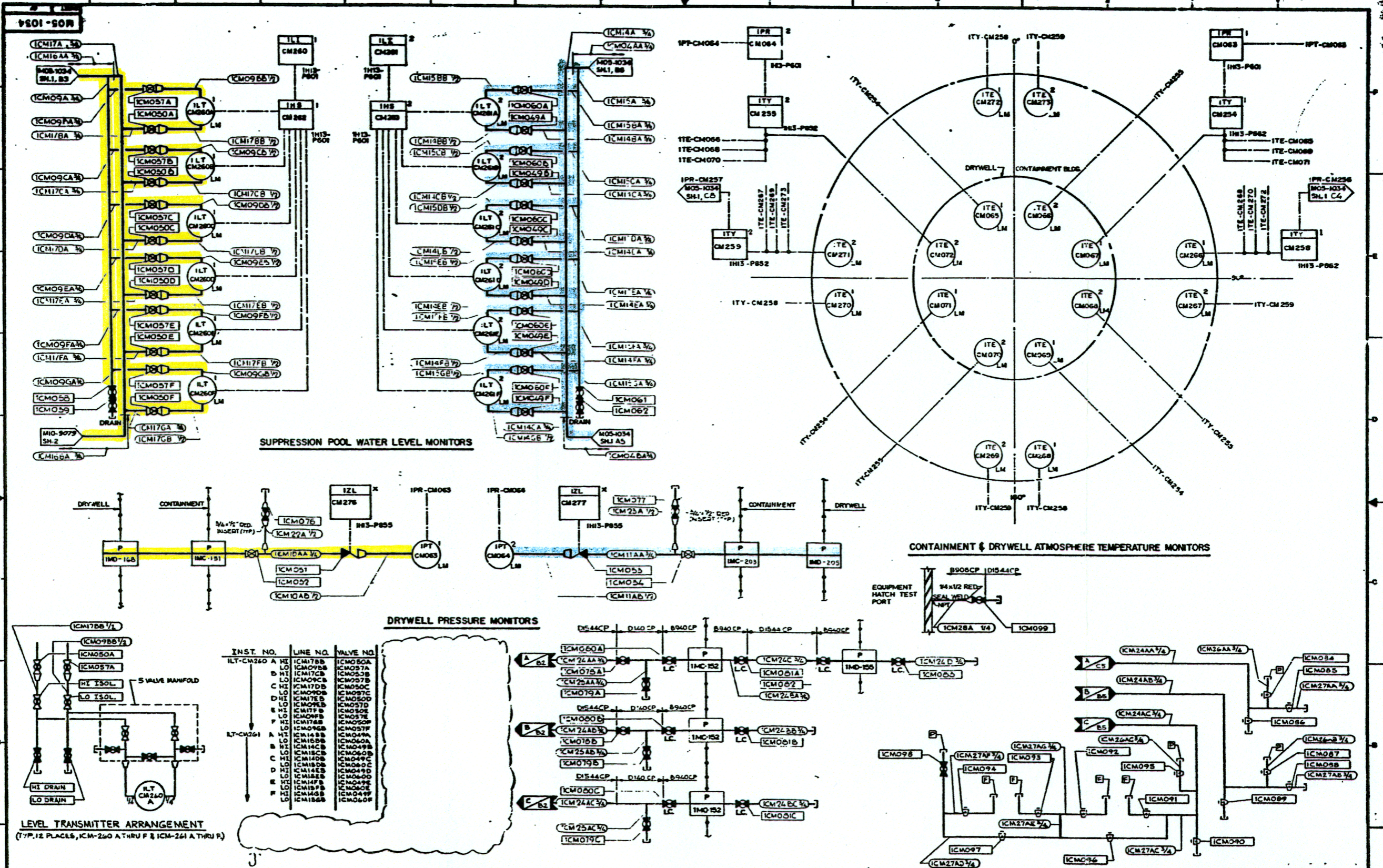
1CM01SB
CONTAINMENT H₂/O₂ ATMOSPHERE
MONITORING SYSTEM
PUMP / ANALYZER SKID
K-2929



- ZONE 1: BETWEEN SHIELD WALL & DRYWELL WALL JUST BELOW DRYWELL CEILING OF APPROX. 0° & 180° AZIMUTH
- ZONE 2: CONTROL ROD DRIVE AREA, BELOW RECIRCULATION PIPING APPROX. 90° & 270° AZIMUTH.
- ZONE 3: BETWEEN REACTOR VESSEL CENTERLINE & ITS RESPECTIVE OUTER RADIAL BOUNDARY OF HEAD REGION APPROX. 90° & 270° AZIMUTH.
- ZONE 4: ABOVE SUPPRESSION POOL, BENEATH STEAM TUNNEL & REFUELING AREAS, ELEVATION 75' CLOSER TO DRYWELL WALL, APPROX. 0° & 180° AZIMUTH
- ZONE 5: CONTAINMENT DOME

- NOTES:
- 1.) SOLENOID ABOVE 74' EL.
 - 2.) SOLENOID ABOVE 762' EL.
 - 3.) PENETRATION IMC-153 & IMC-173, SAMPLE LINE MUST BE HEAT TRACED
 - 4.) VALVES WITH — TO BE INSTALLED TO PROHIBIT FLOW IN DIRECTION SHOWN WHEN CLOSED.

**NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING,
EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)**



SUPPRESSION POOL WATER LEVEL MONITORS

CONTAINMENT & DRYWELL ATMOSPHERE TEMPERATURE MONITORS

DRYWELL PRESSURE MONITORS

LEVEL TRANSMITTER ARRANGEMENT
(TYP. 12 PLACES, ICM-260 A THRU F & ICM-261 A THRU F)

INST. NO.	LINE NO.	VALVE NO.
ILT-CM260	A HI	ICM178B
	A LO	ICM178B
	B HI	ICM177B
	B LO	ICM177B
	C HI	ICM176B
	C LO	ICM176B
	D HI	ICM175B
	D LO	ICM175B
	E HI	ICM174B
	E LO	ICM174B
	F HI	ICM173B
	F LO	ICM173B
	G HI	ICM172B
	G LO	ICM172B
	H HI	ICM171B
	H LO	ICM171B
	I HI	ICM170B
	I LO	ICM170B
	J HI	ICM169B
	J LO	ICM169B
	K HI	ICM168B
	K LO	ICM168B
	L HI	ICM167B
	L LO	ICM167B
	M HI	ICM166B
	M LO	ICM166B
	N HI	ICM165B
	N LO	ICM165B
	O HI	ICM164B
	O LO	ICM164B
	P HI	ICM163B
	P LO	ICM163B
	Q HI	ICM162B
	Q LO	ICM162B
	R HI	ICM161B
	R LO	ICM161B
	S HI	ICM160B
	S LO	ICM160B
	T HI	ICM159B
	T LO	ICM159B
	U HI	ICM158B
	U LO	ICM158B
	V HI	ICM157B
	V LO	ICM157B
	W HI	ICM156B
	W LO	ICM156B
	X HI	ICM155B
	X LO	ICM155B
	Y HI	ICM154B
	Y LO	ICM154B
	Z HI	ICM153B
	Z LO	ICM153B
	AA HI	ICM152B
	AA LO	ICM152B
	AB HI	ICM151B
	AB LO	ICM151B
	AC HI	ICM150B
	AC LO	ICM150B
	AD HI	ICM149B
	AD LO	ICM149B
	AE HI	ICM148B
	AE LO	ICM148B
	AF HI	ICM147B
	AF LO	ICM147B
	AG HI	ICM146B
	AG LO	ICM146B
	AH HI	ICM145B
	AH LO	ICM145B
	AI HI	ICM144B
	AI LO	ICM144B
	AJ HI	ICM143B
	AJ LO	ICM143B
	AK HI	ICM142B
	AK LO	ICM142B
	AL HI	ICM141B
	AL LO	ICM141B
	AM HI	ICM140B
	AM LO	ICM140B
	AN HI	ICM139B
	AN LO	ICM139B
	AO HI	ICM138B
	AO LO	ICM138B
	AP HI	ICM137B
	AP LO	ICM137B
	AQ HI	ICM136B
	AQ LO	ICM136B
	AR HI	ICM135B
	AR LO	ICM135B
	AS HI	ICM134B
	AS LO	ICM134B
	AT HI	ICM133B
	AT LO	ICM133B
	AU HI	ICM132B
	AU LO	ICM132B
	AV HI	ICM131B
	AV LO	ICM131B
	AW HI	ICM130B
	AW LO	ICM130B
	AX HI	ICM129B
	AX LO	ICM129B
	AY HI	ICM128B
	AY LO	ICM128B
	AZ HI	ICM127B
	AZ LO	ICM127B
	BA HI	ICM126B
	BA LO	ICM126B
	BB HI	ICM125B
	BB LO	ICM125B
	BC HI	ICM124B
	BC LO	ICM124B
	BD HI	ICM123B
	BD LO	ICM123B
	BE HI	ICM122B
	BE LO	ICM122B
	BF HI	ICM121B
	BF LO	ICM121B
	BG HI	ICM120B
	BG LO	ICM120B
	BH HI	ICM119B
	BH LO	ICM119B
	BI HI	ICM118B
	BI LO	ICM118B
	BJ HI	ICM117B
	BJ LO	ICM117B
	BK HI	ICM116B
	BK LO	ICM116B
	BL HI	ICM115B
	BL LO	ICM115B
	BM HI	ICM114B
	BM LO	ICM114B
	BN HI	ICM113B
	BN LO	ICM113B
	BO HI	ICM112B
	BO LO	ICM112B
	BP HI	ICM111B
	BP LO	ICM111B
	BQ HI	ICM110B
	BQ LO	ICM110B
	BR HI	ICM109B
	BR LO	ICM109B
	BS HI	ICM108B
	BS LO	ICM108B
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	BV HI	ICM105B
	BV LO	ICM105B
	BW HI	ICM104B
	BW LO	ICM104B
	BX HI	ICM103B
	BX LO	ICM103B
	BY HI	ICM102B
	BY LO	ICM102B
	BZ HI	ICM101B
	BZ LO	ICM101B
	CA HI	ICM100B
	CA LO	ICM100B
	CB HI	ICM099B
	CB LO	ICM099B
	CC HI	ICM098B
	CC LO	ICM098B
	CD HI	ICM097B
	CD LO	ICM097B
	CE HI	ICM096B
	CE LO	ICM096B
	CF HI	ICM095B
	CF LO	ICM095B
	CG HI	ICM094B
	CG LO	ICM094B
	CH HI	ICM093B
	CH LO	ICM093B
	CI HI	ICM092B
	CI LO	ICM092B
	CJ HI	ICM091B
	CJ LO	ICM091B
	CK HI	ICM090B
	CK LO	ICM090B

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
FOR SAFETY CLASSIFICATION SEE PERMITS,
EQUIPMENT, VALVE, OR INSTRUMENT LIST.

This drawing turned over
to HMMRS POWER

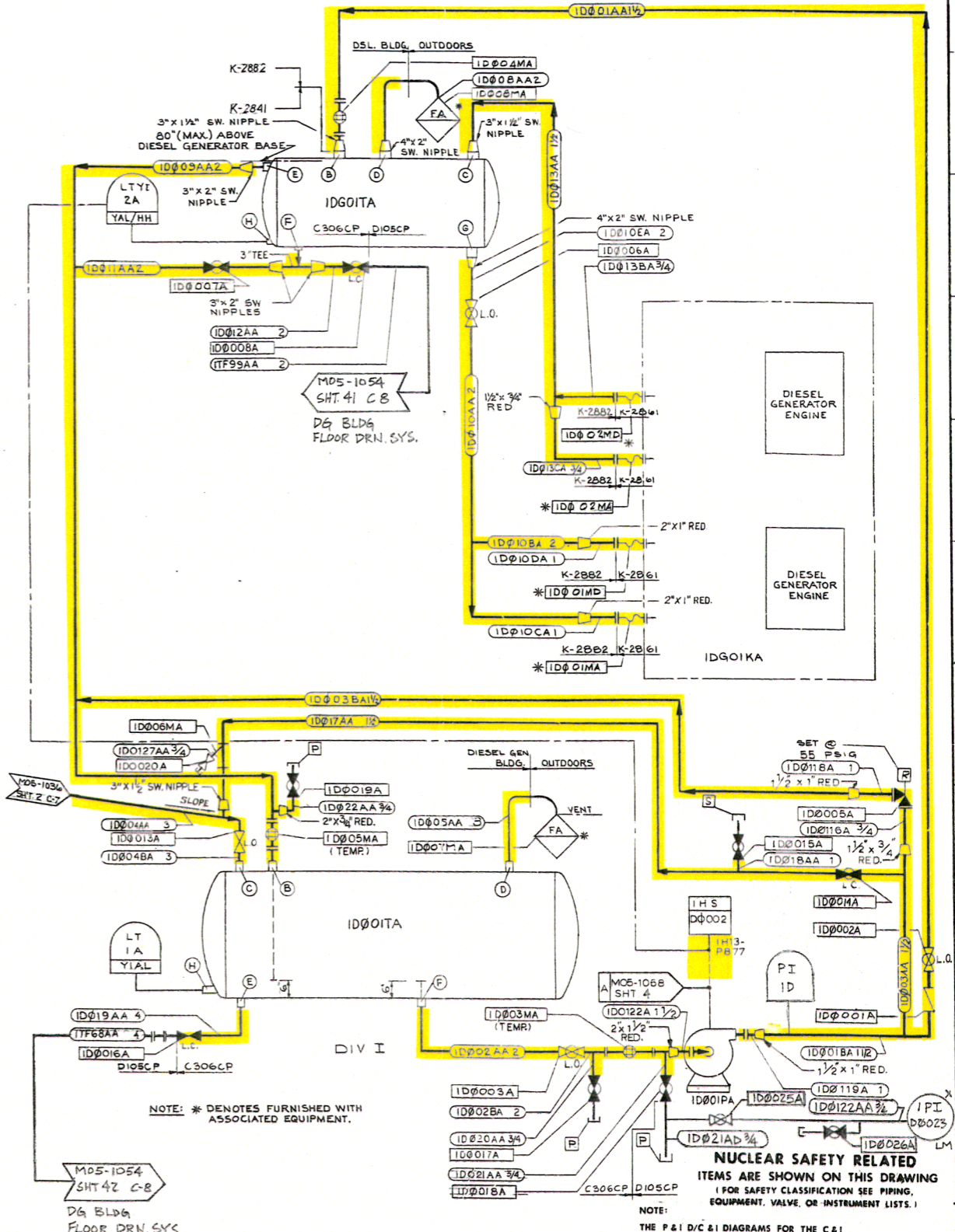
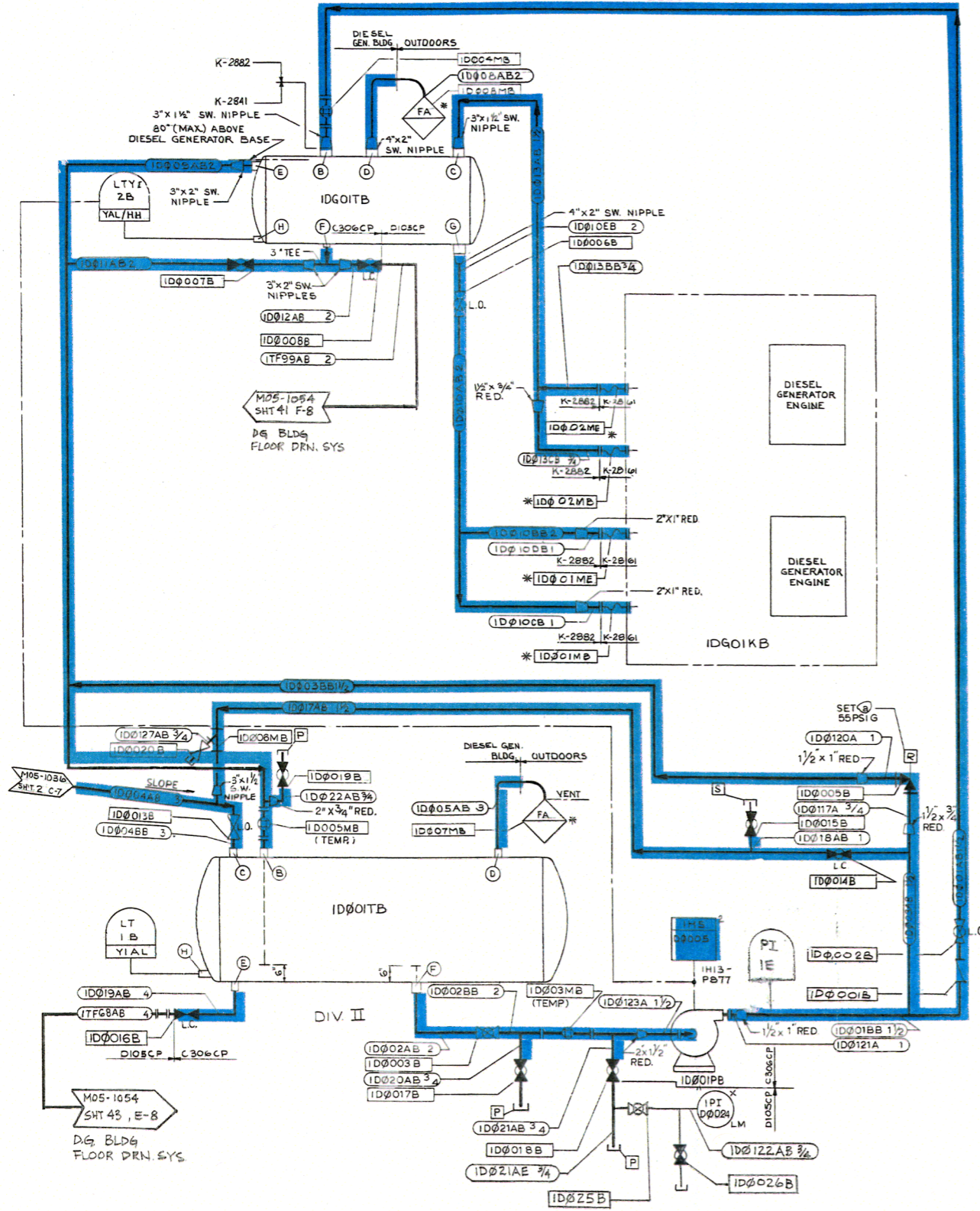
9E01-90W

ID001TA & ID001TB
DIESEL GENERATOR FUEL OIL
STORAGE TANKS
K-2842

ID001PA & ID001PB
DIESEL GENERATOR FUEL OIL
TRANSFER PUMPS
K-2826A

IDG01TA & IDG01TB
DIESEL GENERATOR FUEL OIL
DAY TANK
K-2841

IDG01KA & IDG01KB
DIESEL GENERATOR ENGINES SET SKID
K-2861



NOTE: * DENOTES FURNISHED WITH ASSOCIATED EQUIPMENT.

NUCLEAR SAFETY RELATED
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NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I
FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9036
UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM
REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.